

upper tail-coverts and secondaries very boldly marked with successive black arrow-heads. Primaries black, with wide oblique white markings. Middle tail-feathers almost pure white; second and third pairs white, with wide (about 0·5 inch) oblique black bands on the outer web, the latter pair with some irregular black marking on the inner web also; remaining pairs white, with wide oblique black bands on both webs, forming an irregular arrow-head pattern. "Iris brownish yellow; naked wattle and skin on sides of face scarlet; bill greenish white; legs coral-red."—J. W.

Total length 35 inches, wing 9·4, tail 20, tarsus 3·15.

Adult female. Most nearly resembles the female of *G. andersoni*, but is much darker. The feathers of the back of the neck and mantle mostly black, with wide white shaft-streaks; the underparts, including the under tail-coverts, similar, but with wider white middles; outer tail-feathers uniform dark chestnut, with indistinct vermiculations of black. "Iris light brown; upper mandible greenish brown, lower dull green; naked skin on face red; legs and feet bright scarlet."—J. W.

Total length 21·5 inches, wing 8·1, tail 8·8, tarsus 2·9.

XLVIII.—*List of Birds obtained in British East Africa.* By F. J. JACKSON, C.B., F.Z.S.—Part I. *With Notes by* R. BOWDLER SHARPE, LL.D. &c.

(Plates XII., XIII.)

THE following is a list of the birds obtained by me in various parts of British East Africa and the Equatorial Provinces from 1892 to 1898. My friend Dr. Sharpe has kindly added a few critical notes on some of the species, and I hope on a future occasion to describe more fully the nests and eggs in my collection.

Fam. C O R V I D Æ.

1. HETEROCORAX CAPENSIS.

Heterocorax capensis (Licht.); Sharpe, *Ibis*, 1891, p. 239.
Corvus capensis Shelley, *B. Africa*, i. p. 46 (1896).

Nos. 869, 876. ♂ ♀. Nandi, 6500 feet, Feb. 15, 1898. Iris brown; bill and feet black. Nearly always in pairs. A noisy bird.

2. RHINOCORAX AFFINIS.

Rhinocorax affinis (Rüpp.); Sharpe, Ibis, 1891, p. 239.

Corvus affinis Shelley, B. Africa, i. p. 46 (1896).

No. 303. ♀. Elgeyu, 3700 feet, Aug. 20, 1896. Scarce, only two others seen. Stomach full of eggs and young birds.

3. CORVUS SCAPULATUS.

Corvus scapulatus Daud.; Sharpe, Ibis, 1891, p. 239; Reichen. Vög. deutsch. Ost-Afrikas, p. 165 (1894); Shelley, B. Africa, i. p. 46 (1896).

No. 9. ♂. Ntebi, Aug. 30, 1895.

4. CORVULTUR ALBICOLLIS.

Corvultur albicollis (Rüpp.); Reichen. J. f. O. 1892, p. 40; id. Vög. deutsch. Ost-Afrikas, p. 166 (1894); Shelley, B. Africa, i. p. 46 (1896).

No. 816. ♂. Kampala, Jan. 15, 1898.

No. 1274. ♀. Nandi, 6500 feet, July 9, 1898. Iris brown; bill black, with the tips of both mandibles white; feet black. This fine Raven is plentiful in Nandi. It is a tame and confiding bird. Although plentiful here now in July, it was not present two months ago, and was probably away breeding. Weight 2 lbs. 3 oz.

Fam. STURNIDÆ.

5. DILOPHUS CARUNCULATUS.

Dilophus carunculatus (Gm.); Sharpe, Ibis, 1891, p. 243; Reichen. J. f. O. 1892, p. 41 (Ikurn Island; Umpeke); id. Vög. deutsch. Ost-Afrikas, p. 171 (1894); Shelley, B. Africa, i. p. 46 (1896).

No. 639. ♂ ad. Nandi, 7000 feet, April 30, 1897. Iris brown; bill pinkish horn-white; wattles and front part of bare skin of face dull black; upper part of head yellow; feet brown. A single bird. Several seen, in flocks of from 20 to 30, in the Ravine, July 8, 1897.

Nos. 731, ♂, 753, 754, ♀. Lake Naivasha, May 11, 1897.

No. 788. ♂ imm. Lake Naivasha, May 19, 1897.

Fam. EULABETIDÆ.

6. PHOLIDAUGES VERREAUXI.

Pholidauges verreauxi Bocage; Sharpe, Ibis, 1891, p. 240 (Mt. Elgon); Reichen. Vög. deutsch. Ost-Afrikas, p. 171 (1894); Shelley, B. Africa, i. p. 42 (1896).

No. 369. ♂. Njemps, Sept. 19, 1896.

No. 98. ♂. Ravine, Mau, 7500 feet, June 18, 1896. Plentiful at the Ravine.

No. 423. ♂. Ravine, June 20, 1896. Plentiful.

No. 507. ♀. Ravine, March 4, 1897. Iris bright yellow; bill black; feet brownish black. Fairly plentiful, but only singly or in pairs; at present breeding. Nest found in hole of hollow stump, five feet from the ground; composed of fine green leaves, small like those of privet. Two eggs, pale greenish blue, with reddish-brown speckles, much incubated. This female was shot from the nest as she flew off, at 5.30 P.M., and her stomach was perfectly empty and the ovaries small; she was doubtless sitting on these two eggs, which is probably the full complement, as it is with most birds out here.

No. 519. ♂. Ravine, March 7, 1897. A pair seen.

Nos. 678, 679. ♀. Ravine, July 21, 1897.

Nos. 909, 910. ♂. Ravine, March 4, 1897.

7. PHOLIDAUGES LEUCOGASTER.

Pholidauges leucogaster (Gm.); Reichen. J. f. O. 1892, p. 41 (Sirwa, Kimoani); Shelley, B. Africa, i. p. 42 (1896).

No. 1243. ♂. Nandi, 6500 feet, June 26, 1898. Iris cream-colour round the pupil, fading into yellow; feet black. Appears to be rather a rare bird in Nandi. This was one out of a small flock of five or six. They were attracted by the small fruit of a large tree in the garden here.

[It is interesting to find the true *P. leucogaster* in Nandi, instead of the common *P. verreauxi*, which is so plentiful in other parts of East Africa. There is no question as to the identification of the specimen.—R. B. S.]

8. PHOLIDAUGES SHARPEI. (Plate XII.)

Pholidauges sharpei Jackson, Bull. Brit. Orn. Club, viii. p. xxii (1898).

No. 520. ♂. Ravine, March 7, 1897. Iris bright yellow; bill black; feet brownish black. First one seen. Stomach contained a berry and fruity matter.

No. 562. ♂ juv. Ravine, March 27, 1897. Iris dull green; bill black; gape yellow; feet black.

No. 563. ♀ imm. Ravine, March 27, 1897. Iris dull green.

No. 567. ♂. Ravine, March 28, 1897. Iris bright yellow; bill and feet black. Singly or in small family-parties. Stomach contained berries and insects.

No. 1130. ♂. Nandi forests, 6000 feet, May 19, 1898. Iris bright yellow; bill and feet black.

No. 1280. ♂. Ravine, Aug. 5, 1898. Fairly plentiful in small flocks of from three to eight.

[The following is a full description of this new species, which is not to be confounded with any of the other species of *Pholidauges*, owing to the want of black or purple on the throat:—

Adult male. General colour above glossy purplish black, shot with metallic green or steel-blue, the head rather more purple than the back; wing-coverts glossy black, with the same reflections as the back; quills and tail black, glossed externally with dark steel-blue or purplish green; sides of face, ear-coverts, and sides of neck purplish black; cheeks and throat white, tinged with pale cinnamon, this colour gradually predominating on the breast till the abdomen, vent, lower flanks, and under tail-coverts are clear cinnamon-rufous; sides of breast and flanks glossy blue-black; thighs cinnamon-rufous, black on the hinder aspect; under wing-coverts and axillaries glossy blue-black: "bill and feet black; iris bright yellow" (F. J. J.). Total length 7·2 inches, culmen 0·65, wing 4·2, tail 2·75, tarsus 0·95.

The only hen bird procured by Mr. Jackson is immature. The adult female will probably be found to resemble the male. Young birds, both male and female, are sooty brown,



J. G. Keulemans del et lith

Winter Bros. imp

PHOLIDAUGES SHARPII AD. et JUV.

much more dusky than the adults. The greater wing-coverts have a narrow fringe of buff at the ends. The throat is sparsely spotted with black, and the fore-neck and breast have numerous triangular spots of black, much larger than on the throat, and taking the form of longitudinal streaks on the sides of the body: "iris dull green" (F. J. J.).

In the 'Catalogue of Birds' (vol. xiii. App. p. 667) I made a mistake in following Capt. Shelley in his identification of *Spreo fischeri* of Reichenow. The bird which we erroneously conceived to be the male of *S. fischeri* (Cat. p. 189) is really quite a distinct species, and is the *Pholidauges femoralis* of Richmond (Ank, 1897, p. 160), as has been pointed out to me by my friend Mr. Oscar Neumann.—R. B. S.]

9. LAMPROTORNIS BREVICAUDUS.

Lamprotornis porphyropterus (nec Rüpp.), Sharpe, Ibis, 1891, p. 240 (Turquel).

Lamprotornis purpureoptera (nec Rüpp.), Reichen. J. f. O. 1892, p. 42 (Bukome: Itale); id. Vög. deutsch. Ost-Afrikas, p. 173 (1894).

Lamprotornis brevicaudus Sharpe, Bull. Brit. Orn. Club, vi. p. xlviii (1897).

No. 10. ♂ ad. Kinani, Sept. 22, 1894. Iris straw-colour; bill and feet black.

Nos. 242, 268. ♂. Elgeyu, 3700 feet, Aug. 12-15, 1896. Iris straw-colour; bill and feet black. Very plentiful; breeding. They make a shallow nest of sticks, mostly thorny, very rough.

No. 832. ♂. Samia Hills, Kavirondo, Feb. 5, 1898. Song short, but very sweet. Seen in small parties of from three to five.

[All the specimens obtained by Mr. Jackson confirm the character of the shorter tail in this race. Not one of them has a tail of 6 inches in length.—R. B. S.]

10. AMYDRUS ELGONENSIS.

Amydrus elgonensis Sharpe, Ibis, 1891, p. 242.

No. 89. ♂. Ravine, Mau, 7500 feet, June 15, 1896. Iris

crimson; bill and feet black. In flocks at present, attracted by the ripe fruit of several trees. I have not noticed this species till the last few days.

Nos. 1188, 1189. ♂ ♀. Nandi, 6500 feet, June 4, 1898. Iris dark crimson, the pupil very large; bill and feet black. Not seen in Nandi before to-day, when I found this pair breeding in a hollow tree some thirty feet from the ground. Unfortunately the eggs had been hatched, and there were two young birds in the nest.

No. 1216. ♀. Nandi, 6500 feet, June 17, 1898.

No. 1236. ♀. „ „ June 24, 1898.

[The steel-green, instead of purplish, shade on the throat distinguishes the male of *A. elgonensis* from *A. walleri*, but they are certainly very closely allied. The head and throat in the female of *A. elgonensis* are mottled with mesial streaks and spots of black.—R. B. S.]

11. AMYDRUS MORIO.

Amydrus morio (L.); Sharpe, Ibis, 1891, p. 242 (Ukambani; Turquel; Mt. Elgon); Reichen. Vög. deutsch. Ost-Afrikas, p. 173 (1894); Shelley, B. Africa, i. p. 44 (1896).

No. 67. ♂. Kedong valley, April 17, 1896. Iris dark crimson; bill and feet black. Large flocks of these birds were observed flying across the Kedong valley from west to east.

12. PŒOPTERA GREYI.

Pœoptera greyi Jackson, Bull. B. O. C. viii. p. 1.

Nos. 1124, 1125, ♂; 1126, 1127, ♀. Nandi forests, 6000 feet, May 19, 1898. Iris brown, with outer ring of yellow; bill and feet shining black. When first seen I mistook a flock of these birds for small Bee-eaters, which they resembled in a remarkable degree, both in flight and in their short, loud, trilling note. To-day (May 19) I procured four specimens, and, unfortunately, lost two others in dense green undergrowth. Several small flocks were attracted by a little yellow fruit of a tall forest-tree in a small clearing.

These birds, together with *Zosterops*, Bulbuls, Barbets,

and other birds, were either so intent on the fruit or so unaccustomed to the report of a gun (certainly not a loud one, as I was using E. C. powder) that, until I had fired several shots, they took no notice, but went on feeding. Even when eventually they took alarm, they only flew a short distance to the nearest tree, and came back again almost immediately. The females are easily distinguished from the males, when on the wing, by their conspicuous reddish-brown primaries.

[*P. greyi*, named by Mr. Jackson in honour of Sir Edward Grey, Bart., M.P., the late Under-Secretary of the Foreign Office, is a larger bird than *P. lugubris*, has a much broader and less pointed tail, and has dark wings, not showing the light brown patch on the greater wing-coverts and secondaries, which is a very strong feature in *P. lugubris*.

The types of *P. kenricki* Shelley differ entirely from the four specimens of *P. greyi* collected by Mr. Jackson in being glossy bronzy-black, without any blue or purple lustre. The wings are blackish, without any paler brown wing-patch. The *P. lugubris* from Kilimanjaro, mentioned by Dr. Reichenow (Vög. deutsch. Ost-Afrikas, p. 173), is probably the same as *P. greyi*.—R. B. S.]

13. LAMPROCOLIUS GLAUCOVIRENS.

Lamprocolius glaucovirens Elliot; Sharpe, Cat. B. Brit. Mus. xiii. p. 173, pl. vii. fig. 2 (1890); Reichen. J. f. O. 1892, p. 42 (Bukoba, Sesse Isl.); Shelley, B. Africa, i. p. 43 (1896).

a-d. ♂. Ntebi, Dec. 19–20, 1894. Bill and feet black; iris yellowish white.

No. 942. ♂. Kakamega, Kavirondo, 5600 feet, April 7, 1898. Plentiful in the patch of open forest near Clarke's bridge over the Ichaka river.

Nos. 1168–1169, ♂; 1170, ♀. Nandi, Aug. 29, 1898. Iris straw-colour. Now in pairs and breeding. Makes a nest of dry grass in holes in trees from 20 to 30 feet above the ground. The cock birds are very noisy, but many of their notes are pleasant. When flying they make a loud swishing noise with their wings. They would make splendid cage-birds.

[There is a striking difference in the colour of the sexes, the female being bluish purple on the throat instead of coppery purple as in the male, and the breast is purple, without any of the bronze which is such a conspicuous feature in the male. The pair of birds which show these differences were shot by Mr. Jackson in Nandi from the nest, and I at first thought that both *L. glaucovirens* and *L. splendidus* occurred in Equatorial Africa, and that the two species were identical. I believe now, however, that *L. splendidus* is confined to Senegambia. Dr. Reichenow (J. f. O. 1892, p. 42) has included both species in his list of the birds of the Victoria Nyanza, and says that both sexes of each bird were obtained; but I suspect that the specimens which he identifies as *L. splendidus* are really the females of *L. glaucovirens*.—R. B. S.]

14. *LAMPROCOLIUS CHALYBEUS*.

Lamprocolius chalybeus (Ehr.) ; Sharpe, Ibis, 1891, p. 242 ; Shelley, B. Africa, i. p. 43 (1896).

No. 45. ♀. Ravine, March 21, 1896. Iris bright orange-yellow ; bill and feet black. Plentiful at present in pairs, evidently about to breed.

Nos. 299, 300. ♂ ad. ♀ juv. Elgeyu, 3700 feet, Aug. 19, 1896. Plentiful.

No. 532. Ravine, 7500 feet, March 16, 1897. Now in pairs, breeding. Builds in holes of trees about 20 feet from the ground. Nest of dry grass, thickly lined with feathers.

Nos. 622, 623. ♂ ♀. Ravine, 7500 feet, April 12, 1897.

No. 906. ♂. Ravine, 7500 feet, March 7, 1898.

No. 1121. ♂. Nandi, 6500 feet, Aug. 19, 1898.

[In the series collected by Mr. Jackson the shoulder-spot is purplish blue, and only the Nandi specimen shows any tinge of violet or reddish copper. I have re-examined the series in the British Museum, but am not able to determine that there is more than one species, a conclusion which I arrived at in the 'Catalogue of Birds' (vol. xiii. p. 177). The males in Mr. Jackson's set have the wing about 5·8 inches, and in the female, which is the smaller bird, the wing is 5·3–5·4 inches.—R. B. S.]

15. SPREO SUPERBUS.

Spreo superbus (Rüpp.); Sharpe, Ibis, 1891, p. 243; Reichen. Vög. deutsch. Ost-Afrikas, p. 171 (1894); Shelley, B. Africa, i. p. 44 (1896).

No. 269. ♂. Elgeyu, 3700 feet, Aug. 15, 1896. Iris straw-colour; bill and feet black. Plentiful.

Fam. BUPHAGIDÆ.

16. BUPHAGA ERYTHORHYNCHA.

Buphaga erythrorhyncha (Stanley); Sharpe, Ibis, 1891, p. 243; Reichen. Vög. deutsch. Ost-Afrikas, p. 170 (1894); Shelley, B. Africa, i. p. 41 (1896).

Nos. 1141, 1155, 1165. ♂. Nandi, May 23-29, 1898. Iris vermilion, with an inner ring of yellow; eyelids bright yellow; bill bright coral-red; feet dull brown. The Rhinoceros Bird, so called from its being found more often on the large pachyderm than on any other game-beast, is fairly plentiful in Nandi. It visits cattle for the sake of the ticks, and also attends donkeys, but only when they have sore backs. This bird is evidently most useful in relieving cattle and game of the large number of ticks that accumulate on them, but undoubtedly it does a great deal of damage to draught-oxen, donkeys, &c.

Fam. ORIOLIDÆ.

17. ORIOLUS ROLLETI.

Oriolus larvatus (nec Licht.); Sharpe, Ibis, 1891, p. 243 (Turquel; Mt. Elgon).

Oriolus rolleti Salvad.; Reichen. Vög. deutsch. Ost-Afrikas, p. 168 (1894).

Oriolus larvatus pt., Shelley, B. Africa, i. p. 41 (1896).

a, b. ♂. Ntebi, Aug. 1, 1895. Iris crimson; bill dull carmine; feet slate-colour.

No. 333. ♂ ad. Kamassia, 6500 feet, Aug. 24, 1896. Very plentiful. Iris crimson; bill pinkish brown; feet horn-blue.

No. 676. ♂. Ravine, July 21, 1897. Bill dull rosy brown.

Nos. 1226, 1228. ♂ ♀. Nandi, 6500 feet, June 28, 1898.

No. 1249. ♀ juv. Nandi, 6200 feet, June 28, 1898. Iris dark crimson-brown; bill black, with dull rose-coloured marblings; feet dark horn-blue.

Fam. DICRURIDÆ.

18. BUCHANGA AFRA.

Buchanga assimilis (Bechst.) ; Reichen. J. f. O. 1892, p. 41 (Uganda).

Dicrurus afer, Reichen. Vög. deutsch. Ost-Afrikas, p. 166 (1894); Shelley, B. Africa, i. p. 47 (1896).

No. 311. ♂. Elgeyu, 3700 feet, Aug. 20, 1896. Iris crimson; bill and feet black. Plentiful.

Nos. 334, 335. . Kamassia, 6500 feet, Aug. 24, 1896.

Fam. PLOCEIDÆ.

19. VIDUA PRINCIPALIS.

Vidua principalis (L.) ; Sharpe, Ibis, 1891, p. 244; Reichen. J. f. O. 1892, p. 49 (Bukoba); Shelley, B. Africa, i. p. 23 (1896).

Vidua serena, Reichen. Vög. deutsch. Ost-Afrikas, p. 193 (1894).

a, b. ♂ ♀. Ntebi, March 14, 1895.

No. 933. ♂. Kavirondo, 4500 feet, March 28, 1898. Several others seen. In flocks. Iris brown; bill coral-pink; feet slate-colour.

No. 1175. ♂. Nandi, 6500 feet, May 31, 1898. Rather a scarce bird. Goes about in flocks of eight or ten individuals, of which perhaps three only will be males.

No. 1191. ♂. Nandi, 6500 feet, June 4, 1898.

20. LINURA FISCHERI.

Linura fischeri (Reichen.) ; Sharpe, Cat. B. Brit. Mus. xiii. p. 210 (1890); Reichen. Vög. deutsch. Ost-Afrikas, p. 192 (1894).

Vidua fischeri, Shelley, B. Africa, i. p. 23 (1896).

Nos. 74, 79, 80, 83, ♂; 76, ♀; 84, ♂ juv. Between Ndai and Kinani, April 2, 1892.

Of this interesting Weaver-bird I procured a few specimens out of a small flock at a water-hole in the wilderness. Other

flocks of *Vidua principalis* and *V. hypocherina* were also present, but each species kept apart from the others. Small flocks of *Steganura paradisea* were also observed.

I was fortunate enough to procure the female of the *Linura*, which is, I believe, hitherto undescribed. As might have been expected, it is very similar to the hen of *Vidua principalis*, but has an almost uniform reddish-brown head, with no lateral black bands, and the soft parts are akin to those of the male, as will be seen by the following note which I made at the time:—"Bill dull pink; feet pale dusky pink; iris brown."

The adult males have the iris brown, the feet bright coral-red, and the bill dull coral-red.

The female had an egg inside her, and it was evident that the birds were either breeding or about to breed. The males were also in fine plumage, exceedingly black on the back, with scarcely any traces of sandy margins to the feathers.

I had previously seen this species only in the Kilimanjaro district.

21. STEGANURA PARADISEA.

Steganura paradisea (L.); Sharpe, Cat. B. Brit. Mus. xiii. p. 211 (1890); Reichen. Vög. deutsch. Ost-Afrikas, p. 192 (1890).

Vidua paradisea Shelley, B. Africa, i. p. 23 (1896).

a, b. Nos. 93, 96. ♂. Ungazunga, Teita, April 5, 1892. Feet brown; bill black; iris brown.

This beautiful little bird is very plentiful on the coast, and I have also seen it in the Kilimanjaro district and as far north as Lake Bariungo. It is generally found in the vicinity of "shambas" cultivations.

22. CHERA PROGNE.

Chera progne (Bodd.) ; Sharpe, Ibis, 1891, p. 244.

Coliopasser progne Shelley, B. Africa, i. p. 23 (1896).

Nos. 73, 74, 75. ♂. Swamp north of Lake Elmateita, April 23-25, 1896. Several small flocks, in which the number of females predominated, seen in the long grass on the edge of the swamp.

No. 79. ♂. Ravine, April 25, 1896. On the edge of the large swamp below the Ravine to the east.

23. PENTHETRIA ARDENS.

Penthetria ardens (Bodd.); Sharpe, Ibis, 1891, p. 244 (Teita).

Coliuspasser rubritorques (Swains.); Reichen. J. f. O. 1892, p. 45 (Bukoba, Uliambiri Isl.); id. Vög. deutsch. Ost-Afrikas, p. 192 (1894); Shelley, B. Africa, i. p. 33 (1896).

a. ♂. Ntebi, March 5, 1895.

24. PENTHETRIA LATICAUDA.

Penthetria laticauda (Licht.); Sharpe, Ibis, 1891, p. 245 (Elgeyu; Lake Nahuro).

Coliuspasser laticauda Reichen. Vög. deutsch. Ost-Afrikas, p. 191 (1894); Shelley, B. Africa, i. p. 24 (1896).

No. 158. ♀. Nandi, 6500 feet, July 7, 1896. Iris brown; bill horn-brown, the lower mandible dusky horn-white; feet brown.

No. 215. ♂ ad. Mau Plateau, 8700 feet, Aug. 3, 1896. Iris brown; bill and feet black. Plentiful in boggy hollows where the grass is long. I saw this bird playing at its game of jumping up and down (*cf.* Ibis, 1891, p. 245).

No. 971. ♂. Nandi, 6500 feet, April 12, 1898. Iris brown; bill brown, the lower mandible pale brown at tip, fading into dusky white at base; feet brown. Still in flocks, consisting mostly of males in mottled plumage.

Nos. 997-1000. ♀ ad. et ♂ juv. Nandi, 6500 feet, April 16, 1898. All shot out of one large flock.

No. 1184. ♂ ad. Nandi, 6000 feet, June 2, 1898.

25. PENTHETRIA EQUES.

Penthetria eques (Hartl.); Sharpe, Cat. B. Brit. Mus. xiii. p. 220 (1890); id. Ibis, 1891, p. 245; Reichen. Vög. deutsch. Ost-Afrikas, p. 191 (1894).

Coliipasser eques, Shelley, B. Africa, i. p. 24 (1896).

No. 10. ♂. Ndera, Teita, Jan. 2, 1892.

This bird is fairly plentiful in suitable localities. It is very partial to long grass, and is most plentiful in swampy ground. Round about Witu in July it is plentiful. In Ukambani it was exceedingly plentiful among the cane-like grass on the banks of the river at Nzoi.

26. *DREPANOPECTES JACKSONI*.

Drepanoplectes jacksoni Sharpe, Ibis, 1891, p. 247.

Coliipasser jacksoni Shelley, B. Africa, i. p. 24 (1896).

No. 77. ♂. N. of Lake Elmateita, April 25, 1896. Iris brown; bill pale green, the base and the lower mandible black; feet brownish black. Very plentiful in large flocks.

Nos. 1180–1183. ♂ ad. Nandi, 6000 feet, June 2, 1898.

Now commencing to breed. I found the nests, but only one contained a single egg. The nest is rather a flimsy structure, made of fine dry grass and lined with the seed-heads of fine grass, with an entrance at the side, like the nest of a Willow Wren. It is placed on the edge of swampy places, but not on the coarse herbage of the swamps, within an inch or two of the ground. The birds bend down the surrounding blades of grass and weave them into the top of the nest, which makes the latter not only more difficult to detect, but also renders it more waterproof. Like *Penthetria laticauda*, the cock birds make play-grounds for themselves, on which they dance up and down on and off throughout the day, but more vigorously in the early mornings and late evenings. Yesterday evening I watched several within a radius of 100 yards; and a truly ridiculous sight it was to see these pitch-black, curiously-shaped objects, bobbing up and down out of the grass. From an ant-heap close by I watched for a long time four cock birds within 40 yards of me; and as the sun was within half an hour of setting and shining brightly at my back, I had a first-rate opportunity of noticing how they assumed their curious attitude, and succeeded in making a fairly accurate drawing of them. The actual position is as follows:—The head is thrown back like that of a proud Turkey-cock, the beak being held horizontally. The feet hang downward; the tail is held straight up till it touches the ruff at the base of the head and neck, the ends of the feathers falling in a curve downward, with the exception of two tail-feathers which are held outward and downward.

While actually rising in the air the half-open wings are worked with a very quick shivering motion, and the feet are

also moved up and down very rapidly. The bird springs straight up in the air, sometimes for a few inches and sometimes to a height of 2 feet, and then drops. The whole of the plumage is much puffed out throughout the performance, which is repeated five or six times, with a short interval for rest. The game would appear to be somewhat fatiguing, as a bird rarely makes more than five or six jumps at a time without a short rest. Only on one occasion was a female present on the play-ground. They very often assume their curious jumping attitude some little distance before they arrive at their play-ground. At night they roost in the tall reeds and rushes in the swampy hollows.

27. *PENTHETRIOPSIS SOROR*.

Penthetriopsis soror Reichen. ; Sharpe, *Ibis*, 1891, p. 247.

Penthetria soror Reichen. Vög. deutsch. Ost-Afrikas, p. 191 (1894).

Coliipasser soror Shelley, B. Africa, p. 24 (1896).

a. ♂ ad. Busoga, Nov. 16, 1894. Bill black, the lower mandible horn-blue; feet slate-colour; iris brown.

No. 838. ♂ imm. Kakamega, Kavirondo, Feb. 8, 1898. Iris brown; bill black, the lower mandible horny white; feet black.

No. 932. ♂ ad. Kavirondo, 4500 feet, March 28, 1898. Bill black, the tips of the lower mandible horn-blue.

Nos. 1106-1108, ♂; 1109-1112, ♀. Kakamega, Kavirondo, May 15, 1898. In the males the iris is brown, the bill black, the lower mandible horny blue, with a black base. In the females the iris is brown, the bill pale olive-brown, the lower mandible whitish horn-colour; feet pale fleshy brown with dusky blue tints.

Not seen in the Nandi country. It is very plentiful in Kakamega and all along the cart-road to Manieus.

28. *UROBRACHYA PHŒNICEA*.

Urobrachya phœnicea (Heugl.) ; Sharpe, *Ibis*, 1891, p. 247; Reichen. J. f. O. 1892, p. 45 (Bukoba: Mengo) ; id. Vög. deutsch. Ost-Afrikas, p. 191 (1894) ; Shelley, B. Africa, i. p. 24 (1896).

a. ♂ ad. Ntebi, March 5, 1895.

b. ♀ ad. Kampala, March 18, 1895. Feet pale brown; iris brown; bill dusky brown.

c. ♂ ad. Kampala, March 18, 1895. Bill bluish horn-colour; feet black; iris brown.

d. ♂; e, f. ♀ ad. Kampala, April 4, 1895.

No. 996. ♀ ad. Nandi, 6500 feet. April 16, 1898. Iris brown; bill brown, the lower mandible horny white, with a pale brown tip; feet pale brown. At present in large flocks.

Nos. 1150, 1153. ♂ ♀ ad. Nandi, 6500 feet, May 25, 1898. Iris brown; bill bluish white; feet black. Now in full breeding-plumage, though still in flocks. Roosts among the rushes in swampy places.

Nos. 1159, 1160. ♂ ad. Nandi, 6500 feet, May 28, 1898. Iris brown; bill pale horn-blue; feet slaty black.

No. 1161. ♀ ad. Nandi, May 28, 1898. Iris brown; bill pale brown, the lower mandible whitish horn; feet brown, with a bluish tint.

No. 1179. ♀ ad. Nandi, May 31, 1898.

No. 1187. ♂ in change. Nandi, 6000 feet, June 2, 1898.

No. 1239. ♀ ad. Nandi, 6500 feet, June 25, 1898.

29. PYROMELANA FLAMMICEPS.

Pyromelana flammiceps (Swans.); Sharpe, Ibis, 1891, p. 248; Jackson, Ibis, 1898, p. 135.

Nos. 312, 313. ♂ ♀. Elgeyn, 3700 feet, Aug. 20, 1896. Scarce.

30. PYROMELANA FRANCISCANA.

Pyromelana franciscana (Isert); Sharpe, Ibis, 1891, p. 248; Shelley, B. Africa, i. p. 25 (1896).

No. 373. ♂. Njemps, Sept. 20, 1896. Iris brown; bill black; feet brownish flesh-colour.

31. PYROMELANA XANTHOMELÆNA.

Pyromelana xanthomelæna (Rüpp.); Sharpe, Ibis, 1891, p. 248; Shelley, B. Africa, i. p. 24 (1896).

Orynx xanthomelæna Reichen. Vög. deutsch. Ost-Afrikas, p. 190 (1894).

No. 51. ♂ in change. Ravine, March 23, 1896. Iris brown; bill pale horn-blue, with a dusky tip; feet brown.

No. 184. ♀ Ravine, July 21, 1896. Iris brown; bill brown, the lower mandible horn-white; feet brownish flesh-colour. Plentiful.

Nos. 203, 204. ♂. Ravine, July 28, 1896. Plentiful on the Ravine in the shambas and low grass.

No. 274. ♂. Elgeyu, 3700 feet, Aug. 16, 1896. Very plentiful. Breeding.

Nos. 296, 297. ♂ ♀. Elgeyu, Aug. 19, 1896. Breeding. Eggs two or three. Nest in long grass, and made of fine dry grass, very scantily constructed, with a sort of porch made of the seed-heads of grass.

No. 348. ♂ juv. Ravine, Aug. 30, 1896. Bill brown, the lower mandible horny white; feet brownish flesh-colour.

Nos. 427, 428. ♂ juv. Ravine, Nov. 26, 1896. Young birds of the year, moulting. In small flocks.

No. 804. ♂ juv. Lake Naivasha, Aug. 25, 1897.

Nos. 851, 852. ♀ ad. Nandi, 6500 feet, Feb. 11, 1898. Iris brown; bill olive-brown, lower mandible dull whitish horn; feet brown.

No. 894. ♂ juv. Ravine, 7500 feet, March 4, 1898.

32. PYROMELANA TAHA.

Pyromelana taha (Smith); Sharpe, Ibis, 1891, p. 249; Shelley, B. Africa, i. p. 25 (1896).

No. 355. ♂. Ravine, Sept. 15, 1896. Iris brown; bill black the lower mandible somewhat paler; feet shrimp-brown. Breeding. The nest in long grass, like that of *Quelea cardinalis*. I found two nests.

Nos. 356, 358. ♂ juv. Ravine, Sept. 15, 1896. Bill brown, the lower mandible duller, whitish horn; feet brownish horn-blue.

No. 357. ♀ ad. Ravine, Sept. 15, 1896. Bill brown, the lower mandible white; feet pale shrimp-brown.

33. PLOCEIPASSER MELANORHYNCHA.

Ploceipasser melanorhyncha Rüpp.; Sharpe, Ibis, 1891,

p. 250 (Kitua : Machako's) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 182 (1894) ; Shelley, B. Africa, i. p. 34 (1896).

No. 247. ♂ ad. Elgeyu, 3700 feet, Aug. 13, 1896. Iris carmine-brown ; bill black ; feet bluish flesh-colour. Very plentiful and breeding at Njemps.

No. 248. ♂ ad. Elgeyu, 3700 feet, Aug. 13, 1896. Feet flesh-colour.

No. 249. ♀ ad. Elgeyu, 3700 feet, Aug. 13, 1896.

34. *PLOCEIPASSER SUPERCILIOSUS*.

Ploceipasser superciliosus (Cretzsch.) ; Shelley, B. Africa, i. p. 34 (1896).

No. 327. ♂ ad. Kamassia, 6000 feet, Aug. 23, 1896. Iris bright brown ; bill dusky horn, lower mandible paler ; feet brown. First seen.

Nos. 336, 337. ♂ ad. Kamassia, 6500 feet, Aug. 24, 1896. Bill dusky brown ; feet pale flesh. Plentiful. Breeding.

35. *PHILÆTERUS ARNAUDI*.

Phileterus emini (nec Reichen.) ; Sharpe, Ibis, 1891, p. 249.

Nigrita arnaudi Bp. ; Reichen. Vög. deutsch. Ost-Afrikas, p. 185 (1894).

Philæterus arnaudi Shelley, B. Africa, i. p. 27 (1896).

Nos. 304-307. ♂ ♀. Elgeyu, 3700 feet, May 20, 1896. Iris dark crimson ; bill black ; feet brownish flesh-colour. Breeding. The nest has two entrances, one of which is stopped up when the hen is about to lay. At other times it is used for roosting.

[I have come to the conclusion that all the specimens previously obtained by Mr. Jackson at Machako's were not *P. emini*, but *P. arnaudi*, to which the Elgeyu birds seem certainly to belong.—R. B. S.]

36. *QUELEA CARDINALIS*.

Quelea cardinalis (Hartl.) ; Sharpe, Ibis, 1891, p. 251 (Njemps) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 189 (1894 : Nguruman, Karema) ; Shelley, B. Africa, i. p. 26 (1896).

No. 137. ♂ ad. Nandi, 6500 feet, July 1, 1896. Iris brown ; bill dusky black ; feet brownish flesh-colour. In flocks.

Nos. 128, 129. ♀ imm. Nandi, July 2, 1896. Iris brown; bill olive-brown, with brownish-yellow lower mandible; feet brownish flesh-colour.

Nos. 1218-1224. ♂ ♀ ad. Nandi, June 17, 1898.

37. QUELEA ÆTHIOPICA.

Quelea æthiopica (Sundev.); Sharpe, Cat. B. Brit. Mus. xiii. p. 259 (1890); Salvad. Ann. Mus. Genov. (2) i. p. 177 (1884: Shoa); Shelley, Ibis, 1886, p. 358; Sharpe, Ibis, 1891, p. 250; Shelley, B. Africa, i. p. 26 (1896).

Nos. 94 ♂, 95 ♀, 97, 99. Mbuyuni, Teita, April 5, 1892.

All the specimens are out of plumage, and were shot out of a flock of thirty or forty as they came down to drink at a water-hole in the wilderness. Bill dusky red, lower mandible pale coral-red; eyelids orange; iris brown; feet pale shrimp-brown.

38. SPERMESTES CUCULLATA.

Spermestes cucullata Sw.; Reichen. J. f. O. 1892, p. 46 (Bukoba); id. Vög. deutsch. Ost-Afrikas, p. 184 (1894); Shelley, B. Africa, i. p. 28 (1896).

Nos. 841, 842. ♂. Kakamega, Kavirondo, Feb. 8, 1898. Iris brown; bill black, the lower mandible horn-blue; feet slaty black.

No. 1152. ♀. Nandi, 6500 feet, May 26, 1898.

Now breeding, June 14. Selects old nests of *Hyphantornis reichenowi*, which it lines with fine grass-seed heads. Eggs pure white. Up to date five has been the largest number I found in any nest. Yesterday I found two eggs in a nest of *H. reichenowi*. Both birds were in the nest, and only flew out on my reaching up to the latter, which was in a bush, about seven feet from the ground. The species does not appear to build a nest for itself.

39. SPERMESTES SCUTATA.

Spermestes scutata (Heugl.); Sharpe, Cat. B. Brit. Mus. xiii. p. 265 (1890); Reichen. Vög. deutsch. Ost-Afrikas. p. 184 (1894); Shelley, B. Africa, i. p. 28 (1896).

No. 51. ♂. Kibwezi, 3000 feet, March 12, 1893. Iris

brown; bill very dark horn-blue, lower mandible pale horn-blue; feet horn-blue.

This species is very plentiful throughout the country in the vicinity of habitations. At Kibwezi it was breeding in March. The nest, which is roughly made of dry grass and lined with feathers, is generally placed in a table-topped mimosa or other thorny tree, some 10 to 25 feet from the ground. In several cases I have seen the nest within a few inches of a hanging wasps'-nest; and, although I am not certain on the point, I am inclined to think that the birds began building after the wasps had begun their nest, and that they chose to place their nest in such close proximity to the wasps for the sake of protection against the intrusion of snakes, lizards, mice, or other enemies.

40. ORTYGOSPIZA POLYZONA.

Ortygospiza polyzona (Temm.); Reichen. Vög. deutsch. Ost-Afrikas, p. 188 (1894: Wembere Steppes); Shelley, B. Africa, i. p. 28 (1896).

No. 1279. ♀ ad. East of Mau, 6500 feet, Aug. 4, 1898. Iris ochreous; bill coral-pink; feet pinkish flesh-colour. First one seen by me. I found the nest on the ground, hidden in short grass; it was made of coarse grass, lined with very fine grass and a feather or two. Eggs six, white.

41. LAGONOSTICTA RHODOPARIA.

Lagonosticta rhodoparia Hengl.; Sharpe, Cat. B. Brit. Mus. xiii. p. 282 (1890); Reichen. Vög. deutsch. Ost-Afrikas, p. 188 (1894: Dar-es-Salaam); Shelley, B. Africa, i. p. 31 (1896).

No. 145. ♂ ad. Nandi, 6500 feet, July 3, 1896. Iris brown; bill dark horn-blue; feet slate-colour.

No. 948. ♂ ad. Kakamega, Kavirondo, July 4, 1898. Plentiful in the vicinity of the Ichaka river.

42. LAGONOSTICTA JAMESONI.

Lagonosticta jamesoni Shelley, Ibis, 1882, p. 355; Reichen. Vög. deutsch. Ost-Afrikas, p. 188 (1894: Mombasa); Shelley, B. Africa, i. p. 31 (1896).

No. 50. ♂ ad. Kibwezi, 3000 feet, March 12, 1892.

Iris brown ; bill dark horn-blue, lower mandible paler ; feet dull horn-blue.

[I have compared this specimen with the types in the British Museum, and consider them identical in every respect. The finding of the species at Kibwezi extends its known range considerably.—R. B. S.]

43. *AMADINA FASCIATA*.

Sporothlastes fasciatus (Gm.) ; Fischer, Zeitschr. ges. Orn. i. p. 323 (1884: Nguruman) ; Salvad. Ann. Mus. Genov. (2) p. 179 (1884), vi. p. 283 (1888: Shoa) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 183 (1894) ; Shelley, B. Africa, i. p. 26 (1896).

Nos. 78, 81. ♀ ad. Ungarunga, Kinani, April 2, 1892. Bill dark horn-blue ; legs flesh-colour ; iris pale brown. These specimens, both of which are adult, were also obtained out of a small flock as they came down to drink at a rock-pool, known in East Africa as “Ungarunga,” in the bushy wilderness between the river Tsavo and Kibwezi.

44. *ZONOGASTRIS MELBA*.

Zonogastris melba (L.) ; Sharpe, Cat. B. Brit. Mus. xiii. p. 296 (1890).

Pitylia melba Reichen. Vög. deutsch. Ost-Afrikas, p. 186 (1894).

Pytelia melba Shelley, B. Africa, i. p. 32 (1896).

No. 42. ♀. Kibwezi, 3000 feet, March 10, 1892. Iris crimson, with a shade of orange ; bill dusky crimson ; feet pale shrimp-brown.

Nos. 72, 73. ♂ ad. Kibwezi, April 10, 1892. Iris hazel, with crimson tint ; bill bright red ; feet bluish flesh-colour.

No. 73 was shot as it left its nest, which was built of dry grass very roughly put together, with no extra lining, and placed in a low stunted bush, about 3 feet from the ground. The egg is pure white. This species is fairly plentiful throughout the country.

No. 386. ♂ ad. Njemps, Sept. 26, 1896. Iris bright brown ; bill carmine, with the base of the upper mandible black ; feet earthy brown. Scarce.

45. COCCOPYGIA KILIMENSIS.

Coccopygia kilimensis Sharpe, Ibis, 1891, p. 250 ; Shelley, B. Africa, i. p. 29 (1896).

Sporæginthus quartinia (Bp.) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 188 (1894).

No. 52. ♂ ad. Ravine, March 24, 1896. Iris dark crimson ; bill brownish black, lower mandible blood-red ; feet brownish black.

No. 615, ♀ ad. Ravine, April 10, 1897. Feet olive-brown.

No. 628. ♀ ad. Ravine, April 14, 1897. Fairly plentiful in small flocks of six to ten.

46. NIGRITA SCHISTACEA.

Nigrita schistacea Sharpe, Ibis, 1891, p. 118 (Sotik) ; Shelley, B. Africa, i. p. 27 (1896) ; Oscar Neum. Orn. MB. vii. p. 63 (1899).

Nigrita sparsimiguttata, Reichen. J. f. O. 1892, p. 132 ; id. Vög. deutsch. Ost-Afrikas, p. 185 (1894 : Bukoba) ; Oscar Neum. Orn. MB. vii. p. 63 (1899).

Nos. 130, 135. ♂. Nandi, 6500 feet, June and July 1896.

No. 134. ♀. Nandi, 6500 feet, July 1, 1896. Iris orange-red ; bill and feet black.

No. 848. ♂ ad. Nandi, 6500 feet, Feb. 10, 1898. Iris yellowish brown ; bill black ; feet dull brown.

No. 1042. ♀ ad. Nandi, 6500 feet, April 26, 1898. Iris ochreous hazel.

Found in the bush bordering forest, and also in the bush inside open forest, where it is generally seen singly or in pairs. I have never seen more than a pair together. When searching for food in the early morning it often favours the tops of the tallest trees, but later on and throughout the day it is mostly found in the bush. So far the only place I have met with it is Nandi, where it appears to be not uncommon both in the vicinity of the Government Station and along the road for some ten miles as far east as Kampi Mawe. Breeds in May. Nest large, made entirely of strips of fine dry bark of pink-flowering large-leaved shoots. One was 7 feet from the ground ; another was in a tall tree, 30 feet

from the ground. Eggs pure white. Five nestlings taken from a tall tree on the 4th of June, 1898. Bill leaden-grey; wings black, without any spots of grey; gape with four yellow excrescences the size of no. 10 shot. On June 13th I found a nest with six young ones in a tree, 30 feet from the ground.

No. 1098. ♂ ad. Nandi, 6500 feet, July 2, 1898.

No. 1258. ♂ ad. " " " "

No. 1259. ♂ juv. " " " "

[The presence of the little yellow knobs on the gape of the nestling is interesting, and may be compared with the wattles on the gape of *Poephila gouldiae*, figured by me in 'Wonders of the Bird World' (p. 116).—R. B. S.]

47. UROLONCHA CANICEPS.

Uroloncha caniceps (Reichen.), Sharpe, Cat. B. Brit. Mus. xiii. p. 356 (1890); id. Ibis, 1891, p. 251.

Nos. 82-85. ♀ juv. MutoNdai; Ngarunga Kiukin, April 2, 1892. I think these are immature birds, as they have scarcely any white spots on the throat or sides of the face. These two specimens were obtained out of a small flock at a pool in the wilderness between the river Tsavo and Kibwezi, and were the first I have ever seen in this part of the country. The feet are dark horn-blue; the bill also dark horn-blue, the lower mandible being a little paler. Iris brown.

48. ESTRILDA MINOR.

Estrilda minor (Cab.); Sharpe, Ibis, 1891, p. 251; Reichen. J. f. O. 1892, p. 48; id. Vög. deutsch. Ost-Afrikas, p. 187 (1894).

Nos. 496-504. ♂ ♀ ad. Ravine, March 2, 1897. Iris brown; bill vermilion or bright coral-red; feet brownish black. Very plentiful. Goes about in flocks of from eight to ten individuals, perhaps a family-party, and is sometimes to the number of one hundred or more. It keeps up a constant twitter when on the wing, but is quiet when feeding, its food consisting of small grass-seeds. It makes a nest of fine grass, very compact, lined with a few feathers. Eggs white. It is partial to the vicinity of habitations. The

crops of all these birds were full of small, soft, evidently unripe grass-seeds, which had a disagreeable, sickly smell.

No. 1232. ♂ ad. Nandi, 6000 feet, June 23, 1898.

49. *ESTRILDA NONNULA*.

Estrilda nonnula Hartl.; Sharpe, Cat. B. Brit. Mus. xiii. pp. 400, 669 (1890); Shelley, B. Africa, i. p. 30 (1896).

Estrilda tenerima Reichen. J. f. O. 1892, p. 47; id. Vög. deutsch. Ost-Afrikas, p. 187 (Karágwe; Bukoba).

No. 849. ♂. Nandi forest, 6000 feet, Feb. 10, 1898. Iris brown; bill black, with a crimson streak on both sides of the culmen; base of lower mandible also crimson; feet black.

Nos. 1051, 1053, 1060, 1061. ♂ ♀. Nandi, 6500 feet, April 30 to May 4, 1898.

50. *ESTRILDA PHÆNICOTIS*.

Estrilda phænicotis Sw.; Sharpe, Cat. B. Brit. Mus. xiii. p. 400 (1890); id. Ibis, 1891, p. 251.

No. 61. ♂. Kibwezi, 3000 feet, March 16, 1892. Iris pale brown; bill unripe plum-colour, the tip darker; feet pale shrimp-brown.

This pretty little bird is found everywhere in the country. Its nest is made of dry grass, and is found in various positions, such as in a low bush, in a mimosa- or acacia-tree, 30 feet from the ground, in the thatch of a native hut, or in the deserted nest of the common Yellow Weaver-bird.

51. *GRANATINA IANTHINOASTER*.

Granatina ianthinogaster (Reichen.); Sharpe, Cat. B. Brit. Mus. xiii. p. 404 (1890); Reichen. Vög. deutsch. Ost-Afrikas, p. 186 (1894); Shelley, B. Africa, i. p. 29 (1896).

No. 63. ♂ ad. Lake Naivasha, April 6, 1896. Iris Indian-red; eyelids red; bill crimson, darker at base; feet black.

Nos. 770, 771. ♂ ad. Lake Naivasha, Aug. 14, 1898.

No. 810. ♀ ad. „ „ Aug. 27, 1897.

[All these specimens belong to the true dark-coloured *G. ianthinogaster*, and are easily distinguishable from *G. hawkeri* Lort Phillips, from Somaliland.—R. B. S.]

52. *ICTEROPSIS PELZELNI*.

Icteropsis pelzelni (Hartl.) ; Sharpe, Cat. B. Brit. Mus. xiii. p. 410 (1890).

Ploceus pelzelni Reichen. J. f. O. 1892, p. 44 (Victoria Nyanza) ; id. Vög. deutsch. Ost-Afrikas, p. 179 (1894).

Sitagra pelzelni Shelley, B. Africa, i. p. 38 (1896).

a, b. ♂ ; *c.* ♀ ad. Ntebi, April 25, 1895. Bill black ; iris dark grey ; feet horn-blue.

d. ♀ juv. Ntebi, April 25, 1895. Bill dark horn-colour, nearly black.

53. *ANAPLECTES MELANOTIS*.

Anaplectes melanotis (Lafr.) ; Sharpe, Cat. B. Brit. Mus. xiii. p. 413 (1890) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 183, fig. 84 (1894).

No. 8. ♂. Mt. Maungu, Teita, Dec. 31, 1891. Bill dull carmine ; iris brown ; feet flesh-colour. This bird is decidedly scarce, and I have seen it in Teita only on two or three occasions, and then only single specimens.

No. 286. ♂ ad. Elgeyu, 3700 feet, Aug. 18, 1896. Iris brown ; bill orange-red ; feet bluish flesh-colour.

No. 340. ♂ juv. Kamassia, 6500 feet, Aug. 24, 1896. Iris crimson-brown ; bill pale orange ; feet pale horn-blue. Scarce.

[The young male differs from the adult in having the head ashy brown like the back, with a few red feathers here and there. The sides of the face and the ear-coverts are ashy brown, with a few black feathers intermingled ; and the under surface of the body is white, more ashy on the throat and chest, which show a few rose-coloured feathers, and there is a little black developing on the chin. From this specimen it would appear that the absence of black on the chin is a sign of immaturity. Dr. Reichenow's figure (*l. c.*) lacks the black on the throat, which one would expect to be an oversight on the part of the artist, as the bird figured is evidently perfectly adult.—R. B. S.]

54. *HETERHYPHANTES REICHENOWI*.

Heterhyphantes reichenowi (Fischer) ; Sharpe, Ibis, 1891, p. 252 (Savé, Mt. Elgon ; Elgeyu ; Kikuyu).

Symplectes reichenowi Reichen. Vög. deutsch. Ost-Afrikas, p. 179 (1894).

Othyphantes reichenowi Shelley, B. Africa, i. p. 37 (1896).

a. ♂ juv. Kampala, March 19, 1895. Iris straw-colour; bill black; feet brownish flesh-colour.

No. 142. ♂ ad. Nandi, 6500 feet, July 3, 1896. Soft parts as above.

Nos. 156, 157. ♂ ♀ ad. Nandi, July 6, 1896. Nest like that of the common Yellow Weaver-bird, in a small tree like a mountain ash, about ten feet from the ground. Three eggs, white, with large rusty-brown spots.

No. 165. ♀ imm. Nandi, July 8, 1896. Bill dusky horn-colour, the lower mandible horny white at base.

No. 1143. ♂ ad. Nandi, May 24, 1898. The nests vary in size, some being much more compact than others. They are made entirely of grass, mostly green, but it soon becomes dry. The ceiling is composed of green grass-seed heads beautifully arranged, and the floor where the eggs rest is also lined with seed-heads, and very often with soft down of groundsel and thistles. Most of the eggs were very much incubated by the end of June; many of the nests contained young.

No. 1151. ♀ ad. Nandi, May 26, 1898. Breeding. Nest with three blue eggs, no spots, much incubated; another with young. Nest woven on to the stem of a low tree or bush, not suspended to ends of twigs, made of a coarse grass, lined with seed-heads, which form the roof and porch.

No. 478. ♂ ad. Ravine, 7500 feet, Feb. 23, 1897. Very plentiful. Seen singly and two or three together, sometimes as many as eight or ten, but this, I think, is only for a short time after the breeding-season.

No. 479. ♀ ad. Ravine, Feb. 23, 1897.

No. 556. ♀ imm. Ravine, March 25, 1897. Iris straw-colour; bill dark brown, lower mandible horn-white; feet olive-brown. Very plentiful.

No. 603. ♀ ad. Ravine, April 3, 1897.

No. 698. ♂ ad. „ July 26, 1897.

No. 1172. ♀ ad. Nandi, 6500 feet, May 30, 1898. Nest with two eggs, blue, with large brown spots.

No. 1278. ♂ juv. Ravine, Aug. 2, 1898.

[Young birds are olive-yellowish above, with broad streaks of dark brown or black on the back; the crown uniform olive-yellow, as also the sides of the face and neck, these being slightly darker; the entire under surface of the body is yellow, inclining to orange on the throat and chest. Such is the plumage of specimens procured in August. In March and July (when *fully adult* birds were also obtained) Mr. Jackson got some assuming a black head, but otherwise in the plumage of the young bird with the back streaked. Is it possible that there can be a striped winter-dress for this Weaver-bird?—R. B. S.]

55. *HETERHYPHANTES NIGRICOLLIS*.

Heterhyphantes nigricollis (Vieill.); Sharpe, Cat. B. Brit. Mus. xiii. p. 415 (1890); Shelley, B. Africa, i. p. 37 (1896).

Symplectes nigricollis Reichen. J. f. O. 1892, p. 42 (Bukoba); id. Vög. deutsch. Ost-Afrikas, p. 179 (1894).

No. 946. ♂ ad. Kakamega, Kavirondo, April 7, 1898. Iris brown; bill black; feet horn-blue. The only one seen, near Clarke's bridge, Ichaka river.

56. *HETERHYPHANTES STEPHANOPHORUS*

Heterhyphantes stephanophorus Sharpe, Ibis, 1891, pp. 117, 253, pl. vi. fig. 2; Shelley, B. Africa, i. p. 37 (1896).

No. 1145. ♂. Nandi, 6500 feet, May 24, 1898. Iris dark crimson; bill black; feet very dark slate-colour.

No. 1268. ♂. Nandi, July 4, 1898.

[Both these specimens, marked males, agree with the type, which is also a male.—R. B. S.]

57. *HETERHYPHANTES MELANOGASTER*.

Heterhyphantes melanogaster (Shelley); Sharpe, Cat. B. Brit. Mus. xiii. p. 417 (1890); Shelley, B. Africa, i. p. 37 (1896).

No. 113. ♂ imm. Ravine, June 23, 1896. Iris dark crimson; bill black; feet horny blue.

No. 701. ♂ imm. Ravine, July 27, 1897. Feet brown-blue; bill black, the lower mandible dusky horny white.

No. 962. ♀ juv. Nandi forest, 6500 feet, April 10, 1898. Iris brown; bill dusky brown, lower mandible horny white; feet slate-colour.

No. 1030. ♂ ad. Nandi, 6500 feet, April 24, 1898. Iris crimson; bill black; feet slate-colour. Fairly plentiful. The stomach contained caterpillars and insects.

[No. 962 is evidently immature. It is sooty black above, the head also blackish, but mottled with dull orange bases to the feathers, the commencement of the full plumage. The sides of the face are more distinctly yellow, and the throat approaches a uniform dull orange. The rest of the under surface is ashy, tinged with yellow, and the fore-neck is rather blacker. The wing-margin is yellowish, and this character persists in a male bird (July 27), which is black, with the yellow forehead, face, and throat of the adult, but has the breast intermingled with the olive-yellow plumage of the immature bird. Another male (June 23rd) is quite adult, except for a few black feathers on the yellow throat, which looks as if the species were black-throated at some stage, like *H. stephanophorus*. Lastly, there is a male from Nandi (April 24) which agrees with the type of *H. melanogaster* from the Cameroons, and has a yellow throat and face. This type is also said to be a male, but nevertheless I expect that, when careful observation is made, it will be found that *H. melanogaster* is the female of *H. stephanophorus*, and the latter name will have to be dropped.—R. B. S.]

58. SYCOBROTUS INSIGNIS.

Sycobrotus insignis Sharpe, Ibis, 1891, pp. 117, 253, pl. vi. fig. 1; id. Bull. B. O. C. vi. p. iv, err. (1897).

Symplectes croconotus Reichen. J. f. O. 1892, p. 186; Sjöstedt, Svenska Ak. Handl. xxvii. no. 1, taf. ix. (1895).

Heterhyphantes stephanophorus Sharpe, Bull. B. O. C. vi. p. xliii, 1897, *lapsu cal.*

No. 117. ♂. Ravine, June 24, 1896. Iris crimson-brown; bill black; feet bluish flesh-colour. The first observed by me.

No. 118. ♀. Ravine, June 24, 1896. Soft parts as in the male.

Nos. 128, 129. ♂ ♀. Nandi, 6500 feet, June 29, 1896.

No. 544. ♂. Ravine, March 20, 1897. Iris crimson-brown; bill black; feet brown. Found nearly always in pairs. In habits these Weaver-birds much resemble our Goldfinch, being found in high trees, and twisting and turning into all sorts of positions in search of their insect-food. The stomach contained beetles, insects, &c., but no grains or seeds.

No. 970. ♂. Nandi, 6500 feet, June 13, 1896. Feet pale brown. Always in pairs. Climbs about big stems and branches like a Tit.

No. 991. ♀ ad. Nandi, 6500 feet. April 15, 1898.

Nos. 1085, 1086. ♂ ad. Nandi, May 9, 1898. Feet pale brown, with a slaty tint.

No. 1154. ♀. Nandi, May 26, 1898. Breeding. Nest made of corkscrew-like tendrils of convolvuli, with long retort-shaped spout, woven on to the under side of a branch of a thorn-tree, but not suspended from the end of a branch. Eggs two, pale blue.

No. 1276. ♂ juv. Nandi, July 7, 1898. Iris brown; bill dusky horn-colour, the lower mandible whitish horn; feet pale slaty-brown. The stomach contained the remains of what appeared to be ants and other insects.

[One of the most interesting of Mr. Jackson's discoveries in the field has been that this black-and-yellow Weaver has a chestnut-headed male, which appears to me to be *Symplectes croconotus* of Sjöstedt, hitherto known only from the Cameroons. In mentioning this fact in 1897, I accidentally referred to the species as *Heterhyphantes stephanophorus*, from a too hasty examination of the numbers on the plate in 'The Ibis' for 1891. The young male procured on the 7th of July resembles the adult female, but has the black wing-coverts edged with yellow, and the yellow of the back is paler, the entire under surface of the body being pale lemon-yellow. The crown and sides of the head are olive-green with black feathers intermingled, showing that, in its first

full plumage, the head is black, like that of the old female. Even in adult males the amount of black on the throat varies, and in one of them the throat is entirely yellow.—R. B. S.]

59. *SYCOBROTUS NANDENSIS*, sp. n.

Similis *S. amaurocephalo* Cab., sed suprâ schistacea, pileo undique gulaque nigerrimis. Long. tot. 5·5 poll., culm. 0·7, alæ 3·15, caudæ 2·1, tarsi 0·95.

No. 961. ♀. Nandi, 6000 feet, April 10, 1896. Iris dull crimson; bill horn-blue, with the tip black; feet flesh-colour.

[Compared with Prof. Cabanis's description and figure of *S. amaurocephalus* (J. f. O. 1880, p. 349, pl. 31. fig. 1), Mr. Jackson's Nandi bird is very much greyer, and has the head and throat entirely black. In this respect it also differs from the specimen of *S. amaurocephalus*, also a female, collected by Mr. McCloun in Nyasaland (*cf.* Shelley, *Ibis*, 1899, p. 368), which agrees with Cabanis's description and has a brownish back, and a blackish-brown head and throat; it is also slightly larger (wing 3·4) than the Nandi specimen. The latter has the centre of the fore-neck mottled with black bases to the feathers, a feature only slightly indicated in *S. amaurocephalus*.—R. B. S.]

60. *SITAGRA LUTEOLA*.

Sitagra luteola (Licht.); Sharpe, Cat. B. Brit. Mus. xiii. p. 425 (1890); Shelley, B. Africa, i. p. 38 (1896).

No. 252. ♀. Elgeyu, 3700 feet, Aug. 13, 1896. Iris hazel; bill black; feet pale horn-blue. Breeding. Nest with a long pipe to the entrance.

No. 293. ♂. Elgeyu, Aug. 18, 1896. Iris pinkish brown; bill black; feet pale horn-blue.

No. 294. ♀. Elgeyu, Aug. 18, 1896. Iris yellowish brown; bill dusky black; feet pale horn-blue.

No. 366. ♀. Guasa Molo valley, Sept. 19, 1896. Iris pale crimson-brown; bill and feet dusky horn-blue.

No. 375. ♂ ad. Njemps, Sept. 20, 1896. Iris yellowish brown; bill black; feet horn-blue.

61. *HYPHANTORNIS ABYSSINICUS*.

Hyphantornis abyssinicus (Gm.) ; Sharpe, Ibis, 1891, p. 253 (Elgeyu) ; Shelley, B. Africa, i. p. 40 (1896).

a. ♂. Kampala, March 18, 1895. Iris crimson ; bill black ; feet brownish flesh.

b. ♀. Kampala, March 19, 1895. Iris brown ; bill black, lower mandible dusky whitish horn ; feet dusky brown.

62. *HYPHANTORNIS NIGRICEPS*.

Hyphantornis nigriceps Layard, Sharpe, Ibis, 1891, p. 253.

Ploceus nigriceps Reichen. J. f. O. 1892, p. 43.

No. 67. ♂. Kibwezi, 3000 feet, March 18, 1892. Iris crimson ; feet flesh-colour, with brownish tint ; bill black.

Very plentiful throughout the country. I have noticed that this Weaver builds its nest very much higher from the ground than most other Weavers. At Kibwezi there was a colony breeding in a tall acacia-tree, some 40 to 50 feet from the ground. I have also seen other colonies at Witu, on the coast, which had chosen the top of a tall cotton-wood tree for their nests, which were placed some 80 to 90 feet above the ground.

63. *HYPHANTORNIS JACKSONI*.

Hyphantornis jacksoni Shelley ; Sharpe, Ibis, 1891, p. 253 (Kilimanjaro) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 180 (1894: Aruscha; Kagéyi) ; Shelley, B. Africa, i. p. 40 (1896).

a, b. ♂ ad. Ntebi, March 3, 1895. Iris crimson, with orange tint ; bill black ; feet shrimp-brown.

64. *HYPHANTORNIS VITELLINUS*.

Hyphantornis vitellinus (Licht.), Sharpe, Ibis, 1891, p. 254 (Kamassia) ; Shelley, B. Africa, i. p. 39 (1896).

a, b, c. ♀ ad. et juv. Ntebi, March 3, 1895. Iris pale crimson-brown ; bill dusky, lower mandible whitish yellow ; feet pale fleshy brown.

No. 251. ♀ ad. Elgeyu, 3700 feet, Aug. 13, 1896. Iris brown ; bill brown, the lower mandible white ; feet brownish flesh-colour. Breeding. Found the nest and eggs.

No. 292. ♂ ad. Elgeyu, Aug. 18, 1896. Iris orange-red ; bill black ; feet flesh-colour. Breeding in small colonies.

65. *HYPHANTORNIS SPEKII*.

Hyphantornis spekii Heugl., Sharpe, Ibis, 1891, p. 254 (Machako's); Shelley, B. Africa, i. p. 39 (1896).

No. 58. ♂. River Morandat, Lake Naivasha, April 4, 1896. Iris orange; bill black; feet brown.

66. *CINNAMOPTERYX RUBIGINOSA*.

Cinnamopteryx rubiginosa (Rüpp.); Sharpe, Ibis, 1891, p. 254.

♂. Ngarunga, Kinani, January 27, 1893. Bill black; feet brown; iris brown.

This bird is decidedly local, and I have met with it only in a very few places. At Njemps, near Lake Baringo, in July 1890, I found it breeding in enormous numbers in the thorn-trees.

67. *MALIMBUS RUBRICOLLIS*.

Malimbus rubricollis (Swains.); Sharpe, Cat. B. Brit. Mus. xiii. p. 478 (1890); id. Bull. B. O. C. vi. p. xlviii (1897: Ntebi).

Ad. Ntebi, July 10, 1895. Iris brown; bill and feet black.

68. *MELANOPTERYX NIGERRIMA*.

Melanopteryx nigerrima (Vieill.); Sharpe, Cat. B. Brit. Mus. xiii. p. 476 (1890); Shelley, B. Africa, i. p. 35 (1896).

Ploceus nigerrimus Reichen. J. f. O. 1892, p. 43 (Bukoba; Ntebi; Sesse Isl.); id. Vög. deutsch. Ost-Afrikas, p. 181 (1894: Bukoba).

a. ♂. Ntebi, April 24, 1895.

b. ♂ imm. Ntebi, May 8, 1895. Iris white-straw-colour; feet shrimp-brown.

69. *SPERMOSPIZA RUBRICAPILLA*.

Spermospiza rubricapilla Shelley; Sharpe, Cat. B. Brit. Mus. xiii. p. 500, pl. xv. (1890).

No. 988. ♀ ad. Nandi, 6500 feet, April 13, 1898. Iris brown; bill dull indigo-blue, with orange-brown edges to both mandibles; feet olive-black. First one seen; it was in thick bush in the belt of forest.

70. *AMBLYOSPIZA MELANONOTA*.

Amblyospiza melanonota (Heugl.); Sharpe, Cat. B. Brit. Mus. xiii. p. 504 (1890).

Amblyospiza melanota Shelley, B. Africa, i. p. 33 (1896).

a. ♂. Ntebi, May 10, 1895. Iris brown; bill black; feet dark slate-colour.

No. 1022. ♂ ad. Nandi, 6500 feet, April 22, 1898. Iris brown; bill black; feet olive-black. Breeding in a marsh.

No. 1091. ♀. Nandi, May 9, 1898. Iris brown; bill brownish black, the lower mandible dusky greenish horn-colour; feet brownish-black.

[These specimens are identical with Emin Pasha's birds from Majungo in the British Museum. They are not *A. capitalba*, which Prof. Reichenow (Vög. deutsch. Ost-Afrikas, p. 182) has recorded from Bukoba.—R. B. S.]

71. *DINEMELLIA DINEMELLI*.

Dinemellia dinemelli (Rüpp.); Sharpe, Ibis, 1891, p. 255 (Batzsuma, Teita); Reichen. Vög. deutsch. Ost-Afrikas, p. 178 (1894) (Kilimanjaro); Shelley, B. Africa, i. p. 33 (1896).

No. 280. ♂. Elgeyu, 3700 feet, Aug. 16, 1896. Iris brown; bill dark horn- or lead-colour; feet brownish flesh-colour. Fairly plentiful; also seen near Njemps.

72. *TEXTOR ALBIROSTRIS*.

Textor albirostris (Vieill.); Sharpe, Cat. B. Brit. Mus. xiii. p. 508 (1890).

Nos. 378, 379. ♂. Njemps, Sept. 20, 1896. Iris brown; bill black, with greenish-yellow base; feet pale slate-colour. These are the first I have seen of this species; they were breeding. The nest was a large mass of black thorns, three or four nests being clustered together; all with three eggs.

Fam. FRINGILLIDÆ.

73. *CHRYSMITRIS MELANOPS*.

Chrysomitris melanops (Heugl.); Sharpe, Cat. B. Brit. Mus. xii. p. 229 (1888); Reichen, Vög. deutsch. Ost-Afrikas, p. 197 (1894).

No. 923. ♀. Nandi, 6000 feet, March 21, 1898. Iris

brown; bill horn-colour, the lower mandible horny white; feet brown. Suaheli name "Chiriko."

No. 1200. ♀. Nandi, 6500 feet, June 11, 1898. Iris brown; bill pale brown, the lower mandible dusky white; feet olive-brown. Scarce; observed in pairs.

74. *PASSER SWAINSONI*.

Passer swainsoni (Rüpp.); Sharpe, Ibis, 1891, p. 257 (Ulu); Shelley, B. Africa, i. p. 20 (1896).

No. 34. ♀. Kibwezi, March 7, 1892. This is the common Sparrow of the country.

No. 298. ♀. Elgeyu, 3700 feet, Aug. 19, 1896. Iris hazel; bill black; feet pale brown. Plentiful.

75. *PASSER DIFFUSUS*.

Passer diffusus (Smith); Reichen. J. f. O. 1892, p. 50 (Uganda); id. Vög. deutsch. Ost-Afrikas, p. 195 (1894); Shelley, B. Africa, i. p. 20 (1896).

No. 48. ♀. Ntebi, Oct. 2, 1895. Iris hazel; bill dusky horn; feet dusky brown.

No. 1095. ♀. Nandi, 6500 feet, May 10, 1898. Iris brown; bill slaty black; feet brown.

76. *PASSER EMINI*.

Passer emini (Hartl.); Sharpe, Ibis, 1891, p. 257 (Njemps); Shelley, B. Africa, i. p. 20 (1896).

Sorella emini Reichen. Vög. deutsch. Ost-Afrikas, p. 196 (1894).

No. 309. ♂ imm. Elgeyu, 3700 feet, Aug. 20, 1896. Iris brown; bill dusky black; feet brownish flesh-colour. Fairly plentiful.

Nos. 364, 365. ♀ ad. Guasa Molo river, Sept. 19, 1896. Iris brown; bill dusky brown; feet flesh-colour, with a bluish tint or greenish horn-colour.

77. *PETRONIA PYRGITA*.

Petronia pyrgita (Heugl.); Sharpe, Cat. B. Brit. Mus. xii. p. 296 (1888); Reichen. Vög. deutsch. Ost-Afrikas, p. 195 (1894); Shelley, B. Africa, i. p. 19 (1896).

No. 468. ♀. Ravine, Feb. 19, 1897. Iris light brown;

bill pale dusky brown, the lower mandible dusky white; feet pale horn-blue. The only one seen by me; it was hopping about on the ground, and resembled a Sparrow in its habits.

78. *POLIOSPIZA REICHARDI*.

Poliospiza reichardi Reichen. J. f. O. 1882, p. 209; id. Vög. deutsch. Ost-Afrikas, p. 196 (1894); Shelley, B. Africa, i. p. 21 (1896).

Poliospiza striatipectus Sharpe, Ibis, 1891, p. 258 (Elgeyu); Shelley, B. Africa, i. p. 21 (1896).

Nos. 321, 329. ♂. Kamassia, 6500 feet, Aug. 23-24, 1896.

79. *SERINUS SULPHURATUS*.

Serinus sulphuratus (Linn.); Sharpe, Cat. B. Brit. Mus. xiii. p. 349 (1890); Reichen. Vög. deutsch. Ost-Afrikas, p. 196 (1894); Shelley, B. Africa, i. p. 22 (1896).

Crithagra sulphurata Reichen. J. f. O. 1892, p. 72 (Lake Victoria).

No. 505. ♀ ad. Ravine, March 3, 1897. Iris brown; bill pale horn-brown, lower mandible dusky horn-white; feet brown. Scarce. Found this bird feeding on young shoots of a bush.

No. 514. ♂ ad. Ravine, March 6, 1897. Stomach and crop contained minute seeds.

No. 685. ♂ ad. Ravine, July 23, 1897.

Nos. 686, 687. ♂ ♀ ad. Ravine, July 23, 1897.

No. 703. ♂ ad. Ravine, July 27, 1897.

Nos. 725, 725 a. ♀ ♂ ad. Lake Naivasha, Aug. 6, 1898.

80. *SERINUS BARBATUS*.

Crithagra barbata Heugl. J. f. O. 1864, p. 248.

Serinus icterus (pt.) Sharpe, Cat. B. Brit. Mus. xii. p. 356 (1888).

No. 53. ♂. Ntebi, Oct. 3, 1895. Iris brown; bill dusky horn-colour; feet brown.

81. *SERINUS AFFINIS*.

Serinus striolatus (nec Rüpp.) ; Sharpe, Ibis, 1891, p. 258; Shelley, B. Africa, i. p. 22 (1896).

Poliospiza striolata (nec Rüpp.) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 196 (1894).

Crithagra striolata affinis Richmond, Auk, xiv. p. 157 (1897).

No. 50. ♀ ad. Ravine, March 24, 1896. Iris hazel ; bill brown, lower mandible dusky white ; feet brown. Fairly plentiful, in pairs.

No. 153. ♂ ad. Nandi, 6500 feet, July 5, 1896. Iris brown ; bill horn-brown ; feet brown.

No. 170. ♀ ad. Nandi, 8500 feet, July 11, 1896.

Nos. 185, 186. ♀ ad. Ravine, July 21, 1896.

No. 193. ♀ ad. Ravine, July 23, 1896. Breeding in July.

No. 448. ♀ ad. Kikuyu, Jan. 31, 1897. Breeding. Nest in bush, 3 feet from the ground. Three eggs, like Bullfinch.

No. 1062. ♀ ad. Nandi, 6500 feet, May 4, 1898.

Not nearly so plentiful in Nandi as might have been expected, since the elevation and character of the country are so similar to those of the Ravine, where the bird is so common.

Nos. 1099, 1100. ♂ ad. Nandi, May 12, 1898.

No. 1137. ♂ ad. Nandi, May 23, 1898.

No. 1267. ♀ ad. Nandi, July 3, 1898.

[Mr. Jackson's series shows a more buff-coloured under surface than in the Abyssinian birds, which are white below. The larger size of the latter, as mentioned by Mr. Richmond, does not amount to much, and the actual differences between *Serinus affinis* and *S. striolatus* are very small.—R. B. S.]

82. SERINUS ALBIFRONS.

Crithagra albifrons Sharpe, Ibis, 1891, pp. 118, 255.

Serinus albifrons Shelley, B. Africa, i. p. 22 (1896).

No. 30. ♂ ad. Ravine, March 8, 1896. Iris bright brown ; bill dusky horn-brown, upper edges of lower mandible paler, fading into white underneath ; feet brown. Appears to be fairly plentiful.

No. 44. ♂ ad. Ravine, March 21, 1896. Iris bright crimson-brown.

No. 208. Ad.

No. 209. ♀ ad. } Ravine, July 31, 1896.

No. 210. ♂ ad. }

No. 542. ♂ imm. Ravine, March 19, 1897. Bill olive-brown.

No. 585. ♂ ad. Ravine, March 30, 1897.

Nos. 657, 658. ♀ ♂ ad. Ravine, July 16, 1897.

No. 899. ♀ imm. Ravine, 7500 feet, March 5, 1898.

Nos. 1244, 1244a. ♂ ♀ ad. Nandi, 6500 feet, June 26, 1898.

No. 1247. ♀ ad. Nandi, 6500 feet, June 27, 1898.

[The series now sent by Mr. Jackson shows that the two typical specimens, described by me in 1891, were both young birds. The white patch on the cheeks and the white markings on the throat become nearly or entirely obsolete with age, so that these cannot be regarded as specific characters. The white forehead also disappears with age, and the head becomes like the back. The only differences between *S. albifrons* and *S. burtoni* consist in the more uniform appearance of the upper surface and the narrower and browner stripes on the sides of the body. In *S. burtoni* the upper surface is mottled with dark brown centres to the feathers, and the streaks on the flanks are black and very broad.

The name of *S. albifrons* is certainly unfortunate, having been founded on characters peculiar to the young bird. It has also apparently misled Mr. C. W. Richmond, who has compared specimens from Kilimanjaro with the description of my *C. albifrons* and has named Dr. Abbott's bird *Crithagra kilimensis*. I am afraid that *Serinus kilimensis* (Richmond) is only the adult bird of my *C. albifrons*.—R. B. S.]

83. *SERINUS REICHENOWI*.

Serinus reichenowi Salvad.; Shelley, B. Africa, i. p. 22 (1896).

Poliospiza reichenowi Reichen. Vög. deutsch. Ost-Afrikas, p. 196 (1894).

Serinus fagani Sharpe, Bull. B. O. C. vi. p. vii (1896). Machako's.

a. ♂ ad. Machako's, Oct. 4, 1895. Bill dusky horn; feet shrimp-brown.

No. 275. ♂ ad. Elgeyu, 3700 feet, Aug. 16, 1896. Iris brown; bill brown, lower mandible horny white; feet flesh-brown. In flocks and fairly plentiful.

No. 367. ♀ ad. Guasa Molo river, Sept. 1896. Shot for identification as it flew off its nest. Nest very small, on branch of bush, about 6 inches from the ground. Egg (only one) like a Linnet's.

[There can be no doubt that my *Serinus fagani* is the same as *S. reichenowi*, of which we have lately received a specimen from Mpapwa, presented by the Berlin Museum.—R. B. S.]

84. *SERINUS DORSOSTRIATUS*.

Crithagra dorsostriata Reich. J. f. O. 1892, p. 72 (Kagehi, Wembaeze).

Serinus dorsostriatus (Reichen.); id. Vög. deutsch. Ost-Afrikas, p. 196 (1894); Shelley, B. Africa, i. p. 22 (1896).

No. 295. ♂. Elgeyu, 3700 feet, Aug. 18, 1896.

[This species is very similar to the adult male of *S. maculicollis*, but has bright yellowish ear-coverts and a scarcely defined moustachial streak, whereas in *S. maculicollis* the ear-coverts and moustachial streak are very dark greenish. Count Salvadori's *Serinus xantholæma* (Ann. Mus. Genov. (2) xvi. p. 44) from Somaliland seems to me to be also referable to *S. maculicollis*.—R. B. S.]

85. *EMBERIZA FLAVIVENTRIS*.

Emberiza flaviventris (Bonn. & Vieill.); Sharpe, Ibis, 1891, p. 259 (Kamassia); Reichen. J. f. O. 1892, p. 50 (Uganda); id. Vög. deutsch. Ost-Afrikas, p. 194 (1894); Shelley, B. Africa, i. p. 18 (1896).

No. 206. ♂ ad. Ravine, July 30, 1896. Iris brown; bill dark brown, lower mandible horny white, with a fleshy tint; feet pale horn-blue. The first one seen at the Ravine.

No. 324. ♂ ad. Kamassia, Aug. 23, 1896. Nest in thorn (mimosa) bush, 3 feet from the ground, made of grass,

lined with fine fibrous roots. Eggs two, white, with circle of black "bunting" marks at basal end.

Fam. ALAUDIDÆ.

86. *TEPHROCORYS CINEREA*.

Tephrocorys cinerea (Gm.); Sharpe, Ibis, 1871, p. 260; Shelley, B. Africa, i. p. 14 (1896).

Nos. 59, 60. ♀ ♂ ad. Lake Naivasha, April 4, 1896. Iris brown; bill brownish horn, lower mandible whitish horn; feet brown.

Nos. 727, 728. ♂ ad. Lake Naivasha, Aug. 6, 1897.

87. *MIRAFRA AFRICANA*.

Mirafra africana Smith; Sharpe, Ibis, 1891, p. 260 (Ukambani); Reichen. J. f. O. 1892, p. 52 (Bussissi); id. Vög. deutsch. Ost-Afrikas, p. 202 (1894); Shelley, B. Africa, i. p. 16 (1896).

No. 55. ♂ ad. Lake Nakuru, April 1, 1896. Iris hazel; bill brown, lower mandible horny white; feet flesh-colour.

No. 70. ♀ ad. Lake Naivasha, April 20, 1896. Found the nest in a tuft of grass, built entirely of fine dry grasses. Two eggs, one much paler and with smaller spots than the other.

No. 32. ♂ ad. Ntebi, Sept. 24, 1895.

No. 66. ♂ ad. Ntebi, Oct. 8, 1895. Iris bright hazel; feet fleshy brown.

No. 726. ♀ ad. Lake Naivasha, 6000 feet, Aug. 6, 1897.

No. 734. ♀ imm. Lake Naivasha, 6000 feet, Aug. 7, 1897.

Nos. 740, 741, 742. ♂ ad. Lake Naivasha, Aug. 8, 1897.

[The large series of the present species sent by Mr. Jackson shows great variation in tint and markings, and the rufous occipital patch is more distinct in some examples than in others. I was at one time disposed to regard *Spilocorydon hypermetrus* of Reichenow as identical with *Mirafra africana*, but in 1898 Dr. Reichenow brought the type of his species to England, and I was able to compare the two birds. The

bill of *Spilocorydon* looks larger than in *M. africana*, but this difference is more apparent than real. The culmen is slightly longer than the middle toe and claw, and there is a conspicuous black patch at the side of the neck. The type measured as follows:—Total length 8 inches, culmen 1·0, wing 4·3, tail 2·95, tarsus 1·4; first primary 1·5.

On recomparing a Shoa specimen of *Spilocorydon* with the series of *M. africana*, I notice that the general tint of its colour is more ashy-brown, especially the inner secondaries and inner greater coverts, as well as the tail. The length of the tail appears to be the easiest character for the recognition of *Spilocorydon* from *Mirafra*, for whereas *M. africana* never has the tail longer than 2·7 inches, the Shoa specimen of *Spilocorydon hypermetrus* and two skins collected by Lord Lovat have the tail 3·4 inches.—R. B. S.]

88. PYRRHULAUDA LEUCOPAREIA.

Pyrrhulauda leucopareia (Fischer & Reichen.) ; Sharpe, Cat. B. Brit. Mus. xiii. p. 651 (1890) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 204 (1894) ; Shelley, B. Africa, i. p. 17 (1896).

No. 381. ♂. Njemps, Sept. 21, 1896. Iris brown; bill bluish white; feet dusky flesh-colour. Now in pairs in the open sandy places round Njemps.

Fam. MOTACILLIDÆ.

89. MOTACILLA ALBA.

Motacilla alba Linn. ; Sharpe, Cat. B. Brit. Mus. x. p. 464 (1885) ; Shelley, B. Africa, i. p. 11 (1896).

Nos. 855, 856. ♀ ad. et juv. Mumias, Feb. 5, 1898.

Nos. 887, 888. ♀ ad. Ravine, 7500 feet, Feb. 25, 1898. This is the first time I have seen any species of Wagtail at the Ravine.

[The specimens obtained by Mr. Jackson increase our knowledge of the winter range of the White Wagtail, which was previously known from Sokotra and Somaliland, but had not been recorded from Equatorial Africa. The specimens are all moulting into the spring plumage.—R. B. S.]

90. MOTACILLA VIDUA.

Motacilla vidua Sundev.; Sharpe, Cat. B. Brit. Mus. x. p. 483 (1885); Reichen. Vög. deutsch. Ost-Afrikas, p. 200, fig. 91 (1894); Shelley, B. Africa, i. p. 11 (1896).

a. ♂ juv. Port Alice, Uganda, Dec. 15, 1894. Iris brown; bill and feet black.

Nos. 1265, 1266. ♂ ad. Nandi, 6500 feet, July 3, 1898.

91. MOTACILLA CAPENSIS.

Motacilla capensis Linn.; Sharpe, Cat. B. Brit. Mus. x. p. 493 (1885); Reichen. Vög. deutsch. Ost-Afrikas, p. 201 (1894: Karagwe); Shelley, B. Africa, i. p. 11 (1896).

No. 1092. ♂ ad. Nandi, 6500 feet, May 9, 1898. Iris brown; bill and feet black.

92. MOTACILLA CAMPESTRIS.

Motacilla campestris Pall.; Sharpe, Cat. B. Brit. Mus. x. p. 510 (1885); Shelley, B. Africa, i. p. 11 (1896).

Budytes campestris Reichen. J. f. O. 1892, p. 52, id. Vög. deutsch. Ost-Afrikas, p. 200 (1894: Bukoba).

Nos. 529, 530. ♂ ♀ ad. Ravine, March 14, 1897. Iris brown; bill black, the base of the lower mandible horn-blue. First specimens seen. They were with *M. flava*, which was very plentiful.

No. 589. ♂ ad. Ravine, March 31, 1897.

93. MOTACILLA FLAVA.

Motacilla flava L.; Sharpe, Cat. B. Brit. Mus. x. p. 516 (1885); Shelley, B. Africa, i. p. 11 (1896).

Budytes flavus Reichen. J. f. O. 1892, p. 52; id. Vög. deutsch. Ost-Afrikas, p. 200 (1894).

Nos. 62, 64. ♂ ♀ imm. Ntebi, Oct. 7, 1895.

No. 524. Imm. Ravine, March 7, 1897. Iris brown; bill and feet dusky black.

Very plentiful from November to end of March.

No. 551. ♂ ad. Ravine, March 21, 1897.

Still very plentiful. None seen March 25th-28th.

94. MOTACILLA FELDEGGI.

Motacilla feldeggii Michahelles; Sharpe, Cat. B. Brit. Mus. x. p. 527 (1885).

Motacilla melanocephala Licht. ; Shelley, B. Africa, i. p. 12 (1896).

No. 821. ♂ ad. Berkeley Bay, Jan. 31, 1898. Iris brown ; bill brownish black, base of lower mandible horn-white ; feet black.

Two or three others seen running about on water-lilies and other aquatic plants in a secluded nook in Berkeley Bay. First individuals of this species seen. In company with *M. melanope*.

95. MOTACILLA MELANOPE.

Motacilla melanope Pall. ; Sharpe, Ibis, 1891, p. 588 ; Shelley, B. Africa, i. p. 11 (1896).

No. 900. ♀ ad. Ravine, 7500 feet, March 5, 1898. Iris brown ; bill black, base of lower mandible horn-blue ; feet dusky flesh-colour, toes darker.

96. ANTHUS TRIVIALIS.

Anthus trivialis (Linn.) ; Sharpe, Ibis, 1891, p. 588 ; Reichen. Vög. deutsch. Ost-Afrikas, p. 199 (1894) ; Shelley, B. Africa, i. p. 12 (1896).

No. 433. ♂ ad. Ravine, Dec. 8, 1896. Iris brown, bill brown, lower mandible yellowish white ; feet brownish flesh-colour. Plentiful.

No. 599. ♂ ad. Ravine, March 26, 1897. Bill brown, lower mandible flesh-colour ; feet flesh-colour, with dusky toe-joints.

No. 600. ♂ ad. Ravine, April 2, 1897.

97. ANTHUS PYRRHONOTUS.

Anthus pyrrhonotus (Vieill.) ; Sharpe, Ibis, 1891, p. 588 (Kikuyu) ; Reichen. J. f. O. 1892, p. 51 ; id. Vög. deutsch. Ost-Afrikas, p. 198 (1894) ; Shelley, B. Africa, i. p. 12 (1896).

a. Ad. Kikuyu.

b. Ad. Kavirondo, Nov. 12, 1894.

c. ♂ ad. (No. 20). Ntebi, May 9, 1895.

d. No. 33. ♂ ad. Ntebi, Sept. 24, 1895.

e. No. 834. ♂ ad. Samia, Feb. 4, 1898.

Iris brown ; bill dusky black, base of lower mandible yellow ; feet pale brown.

This Pipit has a curious habit of fluttering up into the air,

and then flying round in wide circles and constantly darting upward with a rapid quivering of the wings, making a loud "drumming" noise like a toy police-rattle. It came as a surprise to me to meet with this bird so far away from the coast, but it was evidently fairly plentiful, though confined to a very restricted area.

No. 837. ♂ ad. Kakamega, Kavirondo, Feb. 8, 1898. Feet brownish flesh-colour.

No. 954. ♀ ad. Nandi, April 9, 1898.

No. 955. ♂ juv. Nandi, April 9, 1898. Iris crimson-orange; bill brown, lower mandible pinky white; feet dusky white.

98. *ANTHUS LATISTRIATUS*, sp. n.

A. similis A. pyrrhonoto atque *A. sordido*, sed notæi plumis medialiter nigro latè striatis, et hypocondriis latè nigro striolatis distinguendus. Long. tot. 6·5 poll., culm. 0·7, alæ 3·55, caudæ 2·4, tarsi 1·1.

No. 19. ♀. Kavirondo, Nov. 12, 1894. Iris brown; bill dusky brown, with the tips of the lower mandible darker, the base yellow; feet pale brown, the toes dusky brown.

[This Pipit, for which Mr. Jackson proposes the name of *latistriatus*, certainly seems to be different from *A. sordidus*, *A. pyrrhonotus*, and all the dark-coloured African Pipits, by reason of its black mottled upper surface and the very distinct broad black centres to the flank-feathers. The outer tail-feather is smoky brown, with a whity-brown shaft and an oblique blackish mark on the inner web; there is a light smoky-brown wedge-shaped mark on the penultimate feather, with a whitish spot at the end of it.—R. B. S.]

99. *ANTHUS CERVINUS*.

Anthus cervinus (Pall.); Sharpe, Cat. B. Brit. Mus. x. p. 585 (1885); Shelley, B. Africa, i. p. 13 (1896).

No. 995. ♂ ad. Nandi, 6500 feet, April 15, 1898. Iris brown; bill dark brownish black, gape and base of lower mandible yellow; feet dark brown. First seen to-day on open downs. Saw two others.

No. 1004. ♂ ad. Nandi, 6500 feet, April 17, 1898.

No. 1010. ♀ ad. Nandi, 6500 feet, April 19, 1898.

June 1st, evidently migrating, as none have been seen lately, although at the time they were plentiful.

100. *ANTHUS RUFULUS*.

Anthus rufulus Vieill.; Sharpe, Ibis, 1891, p. 589; Shelley, B. Africa, i. p. 12 (1896).

Anthus raalteni Reichen. J. f. O. 1892, p. 51 (Bukoba; Itale).

Anthus cinnamomeus Rüpp.; Reichen. Vög. deutsch. Ost-Afrikas, p. 198 (1894).

a. ♂ ad. Ntebi, June 5, 1895. Feet pale brown.

No. 39. ♂ ad. Ravine, March 18, 1896. Iris brown; bill dark brown, lower mandible yellowish white, tip dusky; feet brownish flesh-colour. Evidently breeding.

No. 47. ♂ ad. Ravine, March 23, 1896.

No. 85. ♂ ad. Ravine, May 17, 1896.

Found nest in a tuft of grass, built entirely of dry grass, with a lining of finer grasses. Eggs three, like those of our Meadow-Pipit, slightly incubated.

* Nos. 712, 713, 714, 715, 716, ♂ ad.; 717, 718, ♀ ad. Lake Naivasha, Aug. 4, 1897.

No. 883. ♀ ad. Mau Downs, 8000 feet, Feb. 21, 1898.

No. 1043. ♂ ad. Nandi, 6500 feet, April 28, 1898.

This is the commonest Pipit in the country, and is found almost everywhere on the open grassy downs. It is a tame and confiding bird, allows a near approach, and rarely flies far when disturbed. It often settles on trees and bushes during the heat of the day. It nests on the ground, under the shade of a small bush or tuft of grass or other herbage. It breeds at Nandi in April and May, the nest being placed in a tuft of grass, the materials being grass and moss, lined with very fine grass, hair, &c. Eggs mostly three.

No. 1163. ♂ ad. Nandi, May 28, 1898.

101. *MACRONYX CROCEUS*.

Macronyx croceus (Vieill.); Sharpe, Ibis, 1891, p. 589 (Machako's); Reichen. J. f. O. 1892, p. 52; id. Vög. deutsch. Ost-Afrikas, p. 199 (1894); Shelley, B. Africa, i. p. 13 (1896).

a. ♂. Kavirondo, Nov. 12, 1894. Bill dusky, base of lower mandible horn-blue; feet pale brown, joints of toes darker dusky brown; iris brown.

b. ♀. Port Alice, Dec. 28, 1894.

c. ♂. Kampala, March 25, 1895.

d. ♀. Ntebi, May 19, 1895.

No. 104. ♂. Ravine, June 20, 1896. Iris brown; bill dusky black, the lower mandible horn-blue with a dusky tip; feet brownish flesh-colour. Plentiful in the open on the eastern slopes of Mau. Almost invariably in pairs all the year round.

No. 107. ♀ ad. Ravine, June 22, 1896.

Nos. 573, 574. ♂ ♀. Ravine, March 29, 1897.

Nos. 854, 855, ♀ ad.; 857, 871, ♂ ♀ ad. Nandi, 6500 feet, Feb. 12-15, 1898.

Nos. 884, 885. ♀ juv. Mau Downs, 8000 feet, Feb. 21, 1898. Iris brown; bill dark brown, the base of the lower mandible pale dull horn-blue; feet dusky flesh-colour, with the joints darker. Appears to be fairly plentiful.

No. 1209. ♀ ad. Nandi, 6500 feet, June 14, 1898.

102. *MACRONYX WINTONI*.

Macronyx wintoni Sharpe, Ibis, 1891, pp. 444, 589 (Kavirondo); Shelley, B. Africa, i. p. 13 (1896).

No. 729. ♀ ad. Lake Naivasha, Aug. 6, 1897.

[The culmen measures 0·6 inch, and the bill is very small. There is very little pink on the under surface of this female specimen, the throat being buffy white, and the rest of the under surface pale tawny brown, with black streaks on the chest and sides of the body. Only the centre of the breast and edge of the wing are pink.—R. B. S.]

Fam. NECTARINIIDÆ.

103. *DREPANORHYNCHUS REICHENOWI*.

Drepanorhynchus reichenowi Fischer; Sharpe, Ibis, 1891, p. 590 (Kikuyu); Reichen. Vög. deutsch. Ost-Afrikas, p. 213 (1894).

Nectarinia reichenowi, Shelley, B. Africa, i. p. 2 (1896).

a, b. ♂. Mau, 8000 feet, Oct. 30, 1894.

104. *NECTARINIA ÆNEIGULARIS*.

Nectarinia æneigularis Sharpe, Ibis, 1891, pp. 444, 590.

a. ♂. Mau, Oct. 30, 1894.

105. *NECTARINIA JACKSONI*.

Nectarinia tacazze (nec Stanley); Sharpe, Ibis, 1891, p. 590 (Kikuyu).

Nectarinia jacksoni Oscar Neumann, Orn. MB. vii. p. 24 (1899).

a. ♂. Mau, 8000 feet, Oct. 30, 1895. Type of *N. jacksoni*.

Nos. 96, 97. ♂ ♀ ad. Ravine, June 18, 1896. Iris brown; bill and feet black.

No. 194. ♂ juv. Ravine, July 23, 1896.

Nos. 646, 647. ♂ ad. Ravine, July 14, 15, 1897.

No. 651. ♂ juv. Ravine, July 15, 1897.

[Taken as a whole, the birds from Mau and Kikuyu have greener foreheads than Abyssinian examples, and they can be separated; but I notice a slight tendency to a green forehead among some of the Abyssinian specimens. It appears to me likely that the metallic colour changes in time, and that the fresher plumage is greener in tint.—R. B. S.]

106. *NECTARINIA KILIMENSIS*.

Nectarinia kilimensis Shelley; Sharpe, Ibis, 1891, p. 591 (Machako's; Sotik; Savé; Lake Nahuro); Reichen. J. f. O. 1892, p. 55 (Bukoba; Kahengere; Mengo, Uganda); id. Vög. deutsch. Ost-Afrikas, p. 212 (1894); Shelley, B. Africa, i. p. 2 (1896).

No. 169. ♂ ad. Nandi, 7500 feet, July 10, 1896. Iris brown; bill and feet black.

No. 226. ♂ ad. Elgeyu, Aug. 9, 1896.

No. 471. ♀ ad. Ravine, Feb. 19, 1897.

Nos. 644, 645. ♂ ad. Ravine, July 13, 1897. Plentiful. At present found among a large species of thistle with dark crimson flower.

No. 648. ♂ ad. Ravine, July 14, 1897.

No. 649. ♀ ad. Ravine, July 14, 1897.

No. 860. ♂ juv. Nandi, 6500 feet, Feb. 13, 1898.

No. 1140. ♂ ad. Nandi, 6500 feet, May 23, 1898. Plentiful in Nandi, particularly where the (cork-like bark, red flower, large green leaf) tree is in flower, and also the swamp-loving plants with red tubercle flower.

No. 1162. ♂ ad. Nandi, 6500 feet, May 28, 1898.

107. NECTARINIA PULCHELLA.

Nectarinia pulchella (L.); Sharpe, Ibis, 1891, p. 292 (Njemps); Shelley, B. Africa, i. p. 2 (1896).

Nos. 276, 277. ♂ ad. Elgeyu, 3700 feet, Aug. 16, 1896. Iris brown; bill and feet black. Plentiful.

No. 284. ♀ ad. Elgeyu, 3700 feet, Aug. 17, 1896. Plentiful.

108. CINNYRIS ACIK.

Cinnyris acik (Antin.); Sharpe, Ibis, 1891, p. 592 (Kikuyu; Busoga); Reichen. J. f. O. 1892, p. 55 (Bukoba; Sesse Island); id. Vög. deutsch. Ost-Afrikas, p. 210 (1894).

Chalcomitra acik Shelley, B. Africa, i. p. 4 (1896).

a. ♂. Busoga, Nov. 15, 1894. Bill and feet black; iris brown.

b, c. ♂ ♀. Ntebi, April 21, 1895.

d. ♀. Ntebi, Aug. 10, 1895. Iris brown; bill and feet black.

e. ♀. Ntebi, Sept. 8, 1895.

No. 21. ♂ juv. Ntebi, Sept. 20, 1895.

No. 278. ♂. Elgeyu, 3700 feet, Aug. 16, 1896. Plentiful.

109. CINNYRIS KIRKI.

Cinnyris kirki Shelley; Sharpe, Ibis, 1891, p. 592; Reichen. Vög. deutsch. Ost-Afrikas, p. 210 (1894).

Chalcomitra kirki Shelley, B. Africa, i. p. 4 (1896).

No. 636. ♂ ad. Ravine, April 19, 1897. Iris brown; bill and feet black.

No. 763. ♂ ad. Lake Naivasha, Aug. 12, 1897.

Nos. 806, 808. ♂ ♀ ad. Lake Naivasha, Aug. 26, 1897.

No. 1277. ♂ ad. Ravine, Aug. 2, 1898. Rather a scarce bird at the Ravine.

110. CINNYRIS ERYTHROCERIA.

Cinnyris erythroceria (Heugl.); Reichen. J. f. O. 1892, p. 55 (Bukoba); id. Vög. deutsch. Ost-Afrikas, p. 211 (1894: Kagehi); Shelley, B. Africa, i. p. 3 (1896).

a. ♂. Ntebi, March 10, 1895.

No. 34. ♂. Ntebi, Sept. 24, 1895.

111. CINNYRIS HAWKERI.

Cinnyris mariquensis hawkeri Oscar Neumann, Orn. MB. vii. p. 24 (1899).

No. 282. ♂ ad. Elgeyu, 3700 feet, Aug. 17, 1896.

[The differences between *C. hawkeri* and *C. osiris* are very small, and I very much doubt if they can be kept distinct. The red band on the breast is not quite so tinged with purple or lilac as in *C. hawkeri*, but some Abyssinian examples seem to be scarcely distinguishable from the Somali specimens. *C. suahelicus* has a more sooty-black breast and abdomen. The specimen recorded by me as *C. osiris* from Machako's (Ibis, 1891, p. 593) is referable to *C. suahelicus*.—R. B. S.]

112. CINNYRIS MICRORHYNCHA.

Cinnyris microrhyncha Shelley; Sharpe, Ibis, 1891, p. 593; Reichen. Vög. deutsch. Ost-Afrikas, p. 211 (1894); Shelley, B. Africa, i. p. 3 (1896).

No. 108. ♂ ad. Mt. Maungu, April 9, 1892.

No. 109. ♂ juv. Maungu Wilderness, April 9, 1892. Bill and feet black; iris brown.

This little Sun-bird was very plentiful in the bush round the base of Mount Maungu.

113. CINNYRIS CUPREUS.

Cinnyris cuprea (Shaw); Sharpe, Ibis, 1891, p. 593 (Kitosh); Reichen. Vög. deutsch. Ost-Afrikas, p. 212 (1894); Shelley, B. Africa, i. p. 2 (1896).

No. 931. ♂ imm. Kavirondo, 4500 feet, March 28, 1898.

114. CINNYRIS MEDIOCRIS.

Cinnyris mediocris Shelley; Sharpe, Ibis, 1891, p. 593; Reichen. Vög. deutsch. Ost-Afrikas, p. 212 (1894); Shelley, B. Africa, i. p. 4 (1896).

a. ♂ ad. Mau, 8000 feet.

No. 40. ♀ ad. Ravine, March 21, 1896. Iris brown; bill and feet black.

No. 111. ♀ ad. Ravine, July 23, 1896.

No. 182. ♂ ad. Mau, 8500 feet, July 12, 1896.

No. 283. ♀ ad. Elgeyu, 3700 feet, Aug. 17, 1896.

No. 654. ♂ ad. Ravine, July 15, 1897.

No. 682. ♀ ad.

No. 683. ♂ ad. } Ravine, July 22, 1897.

No. 684. ♀ ad. }

115. CINNYRIS CHLOROPYGIA.

Cinnyris chloropygia (Jard.); Reichen. J. f. O. 1892, p. 55 (Bukoba; Sesse Isl.; Soweh Isl.); id. Vög. deutsch. Ost-Afrikas, p. 212 (1894); Shelley, B. Africa, i. p. 4 (1896).

a. ♂. Ntebi, March 1, 1895.

No. 22. ♂ ad. Ntebi, Sept. 20, 1895.

No. 680. ♀ ad. Ravine, July 22, 1897.

116. CINNYRIS REICHENOWI.

Cinnyris reichenowi Sharpe, Ibis, 1891, pp. 444, 593, pl. xii. fig. 2; Shelley, B. Africa, i. p. 4 (1896).

No. 650. ♂ ad. Ravine, July 14, 1897.

No. 1093. ♂ ad. Nandi, 6500 feet, May 10, 1898. Iris brown; bill and feet black.

No. 1270. ♀ ad. Nandi, 6500 feet, July 8, 1898.

This tiny Sun-bird is plentiful in Nandi. At present they are in pairs. Like all Sun-birds, they are always more in evidence when the various bushes and plants are in flower. The kitchen-gardens, where broad beans and Cape gooseberries are in flower, also the "red-hot poker" and the plants with long tubular flowers, are a great attraction. They are tame, confiding little birds, and will dart and flit about and chase each other in play within a few yards of anyone standing still for a few minutes. Another trait is their pugnacity; two cock birds, when they meet, will invariably fight until one drives the other away.

117. CINNYRIS FALKENSTEINI.

Cinnyris falkensteini F. & R.; Sharpe, Ibis, 1891, p. 594

(Sotik) ; Reichen. Vög. deutsch. Ost-Afrikas, p. 212 (1896) ; Shelley, B. Africa, i. p. 3 (1896).

No. 227. ♂ ad. Elgeyu, 6000 feet, Aug. 10, 1896. Iris brown ; bill and feet black.

No. 279. ♂ ad. Elgeyu, 3700 feet, Aug. 15, 1896. Plentiful.

No. 613. ♂ juv. Ravine, April 8, 1897.

No. 815. ♂ ad. Lake Naivasha, Aug. 29, 1897.

No. 868. ♂ ad. Nandi, 6500 feet, Feb. 14, 1898.

118. CINNYRIS VIRIDISPLENDENS.

Cinnyris viridisplendens Reichen. J. f. O. 1892, p. 54 (Bukoba) ; id. Vög. deutsch. Ost-Afrikas, p. 211 (1894).

a. ♂ ad. Ntebi, March 8, 1895.

No. 23. ♀. Ntebi, Sept. 20, 1895.

No. 168. ♂. Nandi, 7500 feet, July 9, 1896. Iris brown ; bill and feet black.

No. 1052. ♀ ad. Nandi, 6500 feet, May 2, 1898.

No. 1254. ♂ ad. Nandi, 6500 feet, June 29, 1898.

The least common of the Sun-birds in Nandi, although many plants, such as broad beans, Cape gooseberries, besides several shrubs and plants growing in beds, when in full bloom, are much frequented by other Sun-birds. This bird prefers to hunt about for its insect-food amongst the foliage of tall trees, and particularly amongst the rough bark of the larger boughs, and track spiders, &c. It resembles the Tits in the latter habit.

No. 1261. ♀ ad. Nandi, 6500 feet, July 3, 1898.

[Although all the specimens from Equatorial Africa have green heads, they are approached in this respect by others from the West Coast, and I am not convinced that *C. viridisplendens* is specifically distinct from *C. verticalis* ; but a very careful re-examination of the whole series in the British Museum will be necessary to settle the question.—R. B. S.]

119. CINNYRIS CYANOLÆMA.

Cinnyris cyanolæmus (Jard.) ; Shelley, Monogr. Nect. p. 297, pl. 95.

Cyanomitra cyanolema, Shelley, B. Africa, i. p. 5 (1896).

a. ♀ ad. Buganda, Nov. 26, 1894. Bill black; feet black; iris brown. First one seen.

[This seems to be the first recorded occurrence of this species in Equatorial Africa. The specimen in question is a female, but it agrees with West-African examples in the Museum.—R. B. S.]

120. CINNYRIS RAGAZZII.

Eleocerthia ragazzi Salvad. Ann. Mus. Genov. (2) vi. p. 247 (1888 : Shoa).

Cyanomitra ragazzii Shelley, B. Africa, i. p. 5 (1896).

a. ♀ ad. Ntebi, Feb. 25, 1895. Nest and eggs found under eaves of outhouse.

[This agrees with the specimen from Shoa in the British Museum, named by Count Salvadori. The species is very closely allied to *C. obscura*, but it certainly appears to have a little more green tinge on the underparts.—R. B. S.]

121. ANTHOTHREPTES HYPODILA.

Anthothreptes hypodila (Jard.); Reichen. J. f. O. 1892, p. 54 (Bukoba); id. Vög. deutsch. Ost-Afrikas, p. 210 (1894); Shelley, B. Africa, i. p. 6 (1896).

No. 438. ♂ ad. Ravine, Dec. 16, 1896. Iris brown; bill and feet black. Plentiful.

No. 596. ♂ ad. Ravine, March 31, 1897.

No. 627. ♀ ad. Ravine, April 13, 1897.

No. 1005. ♂ ad. Nandi, 6500 feet, April 17, 1898.

122. ANTHOTHREPTES ORIENTALIS.

Anthothreptes longuemarii (nec Less.) Sharpe, Ibis, 1891, p. 594; Reichen. Vög. deutsch. Ost-Afrikas, p. 209 (1894).

Anthothreptes orientalis Hartl.; Shelley, B. Africa, i. p. 6 (1896).

No. 389. ♂ ad. Njemps, Sept. 26, 1896. Iris brown; bill dusky brown, lower mandible paler; feet slaty-black.

Fam. ZOSTEROPIDÆ.

123. ZOSTEROPS JACKSONI.

Zosterops jacksoni Oscar Neumann, Orn. MB. 1899, p. 23.

Z. kikuyuensis Sharpe, Ibis, 1891, p. 594 (pt.: spec. no. 276).

Nos. 119, 120. ♂ ♀ ad. Ravine, June 24, 1896.

No. 123. ♂ ad. Nandi, 6500 feet, June 29, 1896. Iris hazel; bill black; feet horn-blue. Plentiful.

Nos. 484, 485. ♂ ♀ ad. Ravine, Feb. 25, 1897. Iris bright hazel; bill black, base of lower mandible bluish white just at the angle; feet horn-blue.

Very plentiful. At present breeding. Found a nest on the 21st in the drooping branch of a tree with small leaves. It was suspended between a small fork to which it was woven by the upper edges. Built entirely of grey hard moss, and lined with the finest of fibre. It contained two eggs of a palish blue. As I wished to get the pair of birds, I left them and returned later on, only to find the eggs gone. I suspect they were taken by a pair of Bush-Shrikes (*Dryoscopus albofasciatus*), as on going to the spot these birds were making a great noise in a bush close by and repeatedly flew on to the bush close to the nest, and compelled me to throw sticks at them to prevent them, as I hoped, from taking the eggs, which, however, were already gone before my arrival.

This little bird is the most diligent that it is possible to imagine in its search for caterpillars and other insects, and after the breeding-season, when two or more family parties congregate in a flock, the amount of insects they destroy must be very great. Except towards evening, when they have filled themselves to repletion, they are rarely if ever still, but keep darting about among the foliage of both bushes and the tallest trees, twisting and turning their heads in all directions and getting into all sorts of fantastic positions like a Tit, all the time keeping up an incessant chirrup not unlike that of our Golderest. As soon as the apparent leader of the flock leaves a tree, perhaps thinking there is little or nothing left worth looking for in the way of food, it darts off to another tree with a chirrup, when it is followed by the rest one after the other, all of which keep up the same soft little chirrup. These birds will be invaluable when fruit-trees are introduced into the country, and orchards are established.

There is no difference between the sexes in coloration, except that the male is somewhat brighter.

No. 602. ♂ ad. Ravine, April 3, 1897.

Nos. 1193, ♀ ad.; 1194, 1241, ♂ . Nandi, 6500 feet, June 24-26, 1898.

[I find that the large series obtained by Mr. Jackson fully bears out Mr. Oscar Neumann's diagnosis of this species. The specimen from Mount Elgon mentioned by me (*l. c.*) proves to belong to *Z. jacksoni*, and not to *Z. kikuyuensis*.—R. B. S.]

Fam. PARIDÆ.

124. PARUS LEUCOMELAS.

Parus leucomelas Rüpp.; Sharpe, Ibis, 1891, p. 595 (Kitosh).

Parus leucopterus Swains.; Reichen. J. f. O. 1892, p. 55; Shelley, B. Africa, i. p. 15 (1896).

a, b. ♂. Ntebi, May 18, 1895. Bill and feet black; iris straw-colour.

c. ♀ juv. Ntebi, August 2, 1895. Bill black, lower mandible yellow; feet dark slaty-grey; iris dark grey.

125. PARUS NIGRICINEREUS. (Plate XIII.)

Parus nigricinereus Jackson, Bull. B. O. C. viii. p. xxii (1898).

No. 956. ♂ ad. Nandi forest, 6000 feet, April 10, 1898. Iris crimson-orange; bill black; feet horn-blue.

No. 957. ♀ ad. Nandi, April 10, 1898. Iris crimson-brown.

Nos. 958, 959. ♂ ♀ juv. Nandi, April 10, 1898. Iris brown; bill black, gape pale yellow; feet horn-blue.

[I doubt if this species will be found to be distinct from *Parus funereus* of Verreaux. I had not seen the adult male of *P. nigricinereus* when I gave my opinion to Mr. Jackson that it was distinct from the Gaboon species, and I very much fear that the whitish spots on the wing-coverts are signs of immaturity only.—R. B. S.]



J.G. Keulemans del et lith.

Mintern Bros. imp.

PARUS NIGRICINEREUS.

126. *PARUS ALBIVENTRIS*.

Parus albiventris Shelley; Sharpe, Ibis, 1891, p. 595 (Kikumbulu); Reichen. Vög. deutsch. Ost-Afrikas, p. 214 (1894); Shelley, B. Africa, i. p. 9 (1896).

No. 191. ♂ juv. Ravine, July 22, 1896. Iris brown; bill black; feet horn-blue. Plentiful. Nearly always seen in pairs.

No. 228. ♂ ad. Elgeyn, 6000 feet, Aug. 10, 1896. Fairly plentiful.

No. 494. Juv. Ravine, Feb. 28, 1897. Like our Great Tit in habits. Singly or in pairs. Fairly plentiful.

No. 595. ♀ ad. Ravine, March 31, 1897.

Nos. 652, 653, 668, 671. ♂ ♀ ad. Ravine, July 15-18, 1897.

No. 993. ♂ ad. Nandi, 6500 feet, June 15, 1898.

Nos. 1028, 1029. ♂ ad., ♀ imm. Nandi, June 24, 1898. Plentiful in open wooded country.

No. 1148. ♂ ad. Nandi, May 25, 1898.

No. 1176. ♀ imm. Nandi, May 31, 1898.

No. 1199. ♀ imm. Nandi, June 8, 1898.

No. 1211. ♀ juv. Nandi, June 14, 1898. Very plentiful in the open as well as in belts of forest.

127. *PARUS BARAKÆ*, sp. n.

Similis *P. thruppi*, sed maculâ nuchali albâ vix conspicuâ, hypochondriis griseis, tibiis albis, et margine interno primariorum albido, nec isabellino, distinguendus. Long. tot. 4.9 poll., culm. 0.4, alæ 2.7, caudæ 1.9, tarsi 0.75.

Nos. 387, 388. ♂. Njemps, Sept. 26, 1896. Iris brown; bill black; feet horn-blue. First specimens seen. There were four or five of them together.

[N.B.—On comparing Mr. Jackson's specimens with the series of *P. thruppi* in the British Museum, it is seen that they are lighter underneath, and not so isabelline as *P. thruppi*, which has the thighs of the same isabelline colour as the abdomen. This isabelline colour also extends along the quill-lining, whereas in *P. barakæ* the inner edge of the primaries and the thighs are white; the sides of the

body are also greyer than in *P. thruppi*, and there is less tinge of isabelline colour. The white nape-patch in *P. barakæ* is almost obsolete, whereas in *P. thruppi* it is very distinct and large. It would seem that *P. griseiventris* of Reichenow (Vög. deutsch. Ost-Afrikas, p. 214) must also be allied to the above-mentioned species, but it is described as having a grey streak along the sides of the head from the bill, whereas in *P. thruppi* and *P. barakæ* the lores, sides of face, and ear-coverts are pure white.—R. B. S.]

[To be continued.]

XLIX.—*A few Remarks on Volume XXV. of the 'Catalogue of the Birds in the British Museum.'* By T. SALVADORI, C.M.Z.S.

IN 1896, on the appearance of vol. xxv. of the 'Catalogue of the Birds in the British Museum,' containing the *Tubinares*, a family in which I was much interested, I made notes concerning some points which seemed to me worth consideration. Although originally for my private use, I think that these notes may be of some service also to other ornithologists, and for this reason I am induced to publish them.

The references to the 'Tableau Encyclopédique et Méthodique' (Enc. Méth.) on pp. 344, 352, 357, 366, 382, 386, 390, 392, 395, 412, 419, 422, 425, 428, 431, 433, and 437 do not belong to Vieillot (1823), but to Bonnaterre (1790). The same remark applies to the references *Procellaria grisea* (p. 412), *P. variegata* (p. 412), *P. latirostris* (p. 433), and *P. fasciata* (p. 435), all of them attributed to Vieillot, while they belong to Bonnaterre. Luckily, although 33 years older than stated in the 'Catalogue,' those names do not affect the nomenclature followed by Salvin.

The same author used to quote D'Aubenton's 'Planches Enluminées' after Buffon's 'Histoire Naturelle,' a practice not in accordance with the historical order of the species.

The descriptions of *Æstrelata magenta*, *Æ. arminjoniana*, *Æ. defilippiana*, and *Æ. trinitatis* Gigl. et Salvad. have been published first in the Atti Soc. Ital. Sc. Nat. xi. (1868),